

Specifications

SR4 and SR4B Electric Power Generation Rewind Data

Important Safety Information

Most accidents that involve product operation, maintenance and repair are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. A person must be alert to potential hazards. This person should also have the necessary training, skills and tools to perform these functions properly.

Improper operation, lubrication, maintenance or repair of this product can be dangerous and could result in injury or death.

Do not operate or perform any lubrication, maintenance or repair on this product, until you have read and understood the operation, lubrication, maintenance and repair information.

Safety precautions and warnings are provided in this manual and on the product. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.

The hazards are identified by the "Safety Alert Symbol" and followed by a "Signal Word" such as "DANGER", "WARNING" or "CAUTION". The Safety Alert "WARNING" label is shown below.



The meaning of this safety alert symbol is as follows:

Attention! Become Alert! Your Safety is Involved.

The message that appears under the warning explains the hazard and can be either written or pictorially presented.

Operations that may cause product damage are identified by "NOTICE" labels on the product and in this publication.

Caterpillar cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this publication and on the product are, therefore, not all inclusive. If a tool, procedure, work method or operating technique that is not specifically recommended by Caterpillar is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that the product will not be damaged or be made unsafe by the operation, lubrication, maintenance or repair procedures that you choose.

The information, specifications, and illustrations in this publication are on the basis of information that was available at the time that the publication was written. The specifications, torques, pressures, measurements, adjustments, illustrations, and other items can change at any time. These changes can affect the service that is given to the product. Obtain the complete and most current information before you start any job. Caterpillar dealers have the most current information available.



When replacement parts are required for this product Caterpillar recommends using Caterpillar replacement parts or parts with equivalent specifications including, but not limited to, physical dimensions, type, strength and material.

Failure to heed this warning can lead to premature failures, product damage, personal injury or death.

Table of Contents

Specifications Section

General Information	4
Component Views	5
Terminology	6
Winding Data for 102-2415 Generator through 108-3052 Generator	10
Winding Data for 109-1595 Generator through 109-3774 Generator	19
Winding Data for 109-3776 Generator through 109-3806 Generator	38
Winding Data for 111-8240 Generator through 112-1481 Generator	55
Winding Data for 115-5101 Generator through 121-6860 Generator	66
Winding Data for 121-6882 Generator through 123-3185 Generator	96
Winding Data for 129-1502 Generator through 129-5034 Generator	117
Winding Data for 130-0234 Generator through 130-7595 Generator	142
Winding Data for 141-5534 Generator through 142-4935 Generator	164
Winding Data for 144-0469 Generator through 144-0583 Generator	179
Winding Data for 144-1705 Generator through 144-1759 Generator	193
Winding Data for 144-1811 Generator through 144-1951 Generator	206
Winding Data for 147-9437 Generator through 147-9497 Generator	220
Winding Data for 149-2447 Generator through 149-2464 Generator	230
Winding Data for 153-3081 Generator through 153-3098 Generator	248
Winding Data for 164-0975 Generator through 164-0987 Generator	266
Winding Data for 166-2651 Generator through 166-2689 Generator	278
Winding Data for 166-2691 Generator through 166-7187 Generator	298
Winding Data for 167-1351 Generator through 167-1354 Generator	314
Winding Data for 194-6560 Generator through 194-6563 Generator	318
Winding Data for 203-5749 Generator through 203-5757 Generator	322
Winding Data for 4P-2236 Generator through 4P-9907 Generator	327
Winding Data for 4W-0183 Generator through 4W-9669 Generator	363
Winding Data for 5N-0001 Generator through 5N-0025 Generator	389
Winding Data for 5N-0027 Generator through 5N-0050 Generator	413
Winding Data for 5N-0051 Generator through 5N-0075 Generator	438
Winding Data for 5N-0076 Generator through 5N-0090 Generator	469

Winding Data for 5N-0431 Generator through 5N-7207 Generator	484
Winding Data for 5N-7208 Generator through 5N-7232 Generator	509
Winding Data for 5N-7233 Generator through 5N-7309 Generator	534
Winding Data for 5N-8891 Generator through 5N-8911 Generator	559
Winding Data for 5N-9081 Generator through 5N-9432 Generator	579
Winding Data for 6I-0053 Generator through 6I-4853 Generator	589
Winding Data for 7C-1601 Generator through 7C-9126 Generator	614
Winding Data for 7E-0097 Generator through 7E-9695 Generator	653
Winding Data for 7W-1877 Generator through 7W-8825 Generator	658
Winding Data for 9Y-0157 Generator through 9Y-0389 Generator	700
Winding Data for 9Y-0390 Generator through 9Y-0533 Generator	726
Winding Data for 9Y-1408 Generator through 9Y-9422 Generator	750
Connection Diagrams for Main Stator and Main Rotor	773
Connection Diagrams for Exciter	824
Generator Identification	829

Index Section

Index	859

Specifications Section

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General Information

SMCS Code: 4450

If there is a failure of the generator windings, the generator can be rewound.

Caterpillar generators can be classified by three identification numbers: arrangement number, group (part) number, and serial number. The data in this manual is classified by the generator group (part) number, in alpha-numeric order. In order to locate the appropriate generator, refer to the index in the back of this manual. If you know only the generator arrangement number, refer to the Specifications, "Generator Identification" within this manual, which gives a cross-reference matrix between the arrangement numbers and the group numbers. Each table that contains generator rewind information will refer to the connection diagrams for the main stator and rotor, as well as exciter stator and rotor. For the connection diagrams, refer to the Specifications, "Connection Diagrams for Main Stator and Main Rotor" and the Specifications, "Connection Diagrams for Exciter".

NOTICE

Do not overheat any of the generator components in order to burn off the epoxy varnish. Overheating the components can cause the laminations to become shorted together. This will damage the lamination assembly.

Generator Identification

The generator identification plate is located on the left side of the generator.

When service is required, the information that is given on this plate should be used. The generator identification plate includes the following information: serial number, model number, and the rating of the generator set. The generator set consists of the engine and generator. All pertinent generator data is also included on the plate in order to provide the information that is necessary to order parts.

SALES MODEL

GENERATOR SET

RATING

KVA KW COS ϕ HERTZ

CONTINUOUS PRIME STANDBY

GENERATOR DATA

3 PHASE $\sim$ WIRE

WYE (STAR) DELTA

CONNECTION SERIES PARALLEL

GENERATOR VOLTS AMPS

EXCITATION VOLTS AMPS

FRAME REV/MIN

MAXIMUM TEMPERATURE RISE $^{\circ}$ C BY RESISTANCE

$^{\circ}$ C AMBIENT METERS ALTITUDE

CLASS INSULATION

ENCLOSURE TYPE

YEAR

INCLUDE SERIAL NUMBER AND GENERATOR PART NUMBER FROM GENERATOR SERIAL NUMBER PLATE WHEN ORDERING PARTS AND IN CORRESPONDENCE.

GENERATOR FRAME SHOULD BE GROUNDED.

4P-6410 1

Illustration 1
Generator Identification Plate

GENERATOR MODEL

SERIAL NUMBER

ARRANGEMENT NUMBER

(ALWAYS GIVE ALL NUMBERS)
MADE IN U.S.A. 1W7848 2

Illustration 2
Generator Serial Plate

Wire Standards

The wire size must be correct and the wire number must be correct. The wire size is listed in American Wire Gauge (AWG). The wires must meet the standards in NEMA, "MW 1000-1997 MW 24-C". If you use wire that does not meet this standard, failure of the generator may result. All of the wires that are listed in this book are round wires, unless otherwise specified.

Varnish

The varnish must have a rating of class “F” for the following generator group numbers:

106-3652, 108-3052, 121-3194, 4P-2238, 4P-2240, 4P-2242, 4P-2246, 4P-3015, 4P-4565, 4P-4571, 4P-7270, 4P-7272, 4W-0183, 4W-0184, 4W-6905, 4W-7049, 4W-7421, 4W-7422, 4W-7423, 4W-7424, 4W-7425, 4W-7427, 4W-7428, 4W-7429, 4W-7430, 4W-7431, 4W-7433, 4W-7434, 4W-8950, 4W-8951, 4W-8952, 4W-8953, 4W-8954, 4W-9069, 4W-9666, 4W-9667, 4W-9668, 4W-9669, 6I-2676, 6I-3088, 6I-3090, 6I-3092, 6I-3094, 6I-4827, 6I-4829, 6I-4833, 6I-4835, 6I-4839, 6I-4841, 6I-4843, 6I-4845, 6I-4847, 6I-4849, 6I-4851, 6I-4853, 7C-1601, 7C-1602, 7C-1603, 7C-1604, 7C-1605, 7C-1606, 7C-1607, 7C-1608, 7C-1609, 7C-1610, 7C-1611, 7C-1612, 7C-1613, 7C-1614, 7C-2269, 7C-2312, 7C-2617, 7C-2618, 7C-2619, 7C-2620, 7C-2621, 7C-2623, 7C-3484, 7C-3537, 7C-3538, 7C-3539, 7C-3540, 7C-3541, 7C-3542, 7C-4118, 7C-4121, 7C-4913, 7C-5094, 7C-7149, 7C-7151, 7C-7537, 7C-8892, 7C-8893, 7C-9126, 7E-5425, 7W-1877, 7W-3037, 7W-4367, 7W-4369, 7W-4371, 7W-4373, 7W-7521, 7W-7963, 7W-8671, 7W-8672, 7W-8673, 7W-8674, 7W-8675, 7W-8676, 7W-8677, 7W-8678, 7W-8679, 7W-8680, 7W-8681, 7W-8682, 7W-8685, 7W-8686, 7W-8687, 7W-8688, 7W-8690, 7W-8691, 7W-8692, 7W-8693, 7W-8695, 7W-8696, 7W-8697, 7W-8698, 7W-8699, 7W-8700, 7W-8701, 7W-8702, 7W-8743, 7W-8744, 9Y-0353, 9Y-0356, 9Y-0363, 9Y-0364, 9Y-0365, 9Y-0373, 9Y-0374, 9Y-0375, 9Y-1412, 9Y-3873, 9Y-3876, 9Y-7180, 9Y-9374, 9Y-9375, 9Y-9416, 9Y-9417, 9Y-9418, 9Y-9419, 9Y-9421, 9Y-9422.

All other generator group numbers that are not listed above must have class “H” rating of varnish.

A high strength 100 percent fill epoxy varnish is recommended.

Balance

Rewound rotors must be balanced dynamically. When you balance the rotor, the rotor’s peak to peak displacement should be no greater than 0.0127 mm (0.0005 inch).

NOTICE

If the rotor is not balanced properly, vibrations will result. These vibrations can damage the generator.

Resistance

For the resistance checks, use a milliohmmeter such as Wheatstone bridge or Kelvin bridge. Most digital multimeters and analog multimeters are not accurate enough to measure the coil resistance.

The resistance values are correct only at the given temperature. If the winding temperatures are different from the temperatures in the table, use the following formula in order to find the actual resistance.

$$R_2 = R_1 \times (234.5 + T_2) / (234.5 + T_1);$$

R_1 – The resistance that is listed in the table

R_2 – The resistance that is actually measured

T_1 – The temperature that is listed in the table

T_2 – The temperature that is actually measured

Testing

High-potential tests must be performed according to the following standards:

- NEMA, “MG 1-1998 32.21”
- IEC, “60034-6”

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Component Views

SMCS Code: 4453; 4454; 4457; 4470



Illustration 3
Main Stator

g00637295

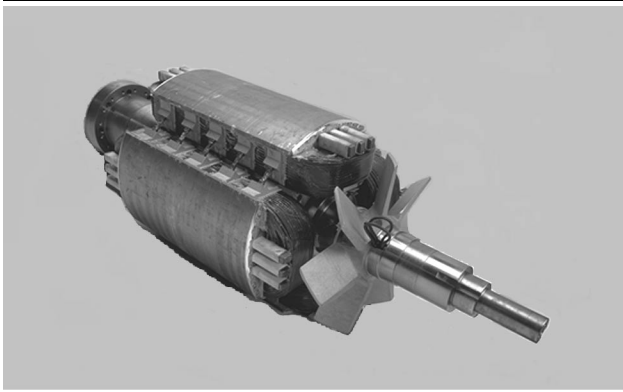


Illustration 4
Main Rotor

g00637293



Illustration 5
Exciter Stator

g00637297



Illustration 6
Exciter Rotor

g00637298

Terminology

SMCS Code: 4450

Coil – an insulated conductor that is wound in a series of turns. Coils form the windings of the generators. The voltage can be varied by varying the number of turns in a coil. Typically, the number of coils is equal to the number of slots. Refer to Illustration 12.

Coil Group – a number of adjacent coils in the same phase. A coil group lies between other coil groups which are in different phases. The number of groups is equal to the number of poles multiplied by the number of phases.

Coil Span – the number of slots spanned by a coil. For example, a coil span of 5 is the same as the coil throw 1-6. Refer to Illustration 12.

Coil Throw – the distance between the two sides of the coil, which is expressed by numbering the slots that the two sides of the coil occupy. For example, a coil with a coil throw 1-6 would occupy the two extremes of a slot sequence that is numbered 1-6. Refer to Illustration 12.

Coils Per Group – This parameter shows how many coils are in any specified group. Coils/Group can be calculated by dividing the total number of coils by the number of groups.

Concentric Winding – In a concentric winding, each coil group comprises coils of different spans which are sharing a common center line. Thus, coils are routed in loops that are enclosed within larger loops. Therefore, the coil throw may be expressed as a decimal number. This method of winding requires the least amount of copper and results in slightly higher levels of harmonics. Refer to Illustration 10.

Copper Weight – total weight of the wire.

Exciter Frequency – exciter armature operating frequency.

Exciter Poles – number of magnetic poles in the exciter field.

Field Lead Resistance at 25 °C (77 °F) – resistance measured at the lead terminals of the field.

HF – an abbreviation for heavy film wire.

Group – same as coil group.

Inside Connection – the number of stator coils in each phase and the coil connections needed to make up one phase for a high voltage star configuration.

Insulation – There are two main types of wire insulation that are used on Caterpillar generators: Heavy Polyester Polyamide Imide and Heavy Nytherm. These insulation types can be either class H or class F materials. Class H is temperature rated at 180 °C (356 °F). Class F is temperature rated at 155 °C (311 °F).

Lap Winding – a winding in which one side of each coil, where it emerges from each end of the slot, lies above the nearest coil. The opposite side of the coil lies underneath the nearest coil. Lapped windings are routed across one another. The coil throw is a whole number. This method of winding provides a better waveform because of better symmetry. Refer to Illustration 11.

Layer (Form) Wound – method of placing large single wires in uniform and in parallel layers. Layer winding utilizes square, rectangular, or round wires which can be placed very close to one another resulting in superior efficiency and durability. Refer to Illustrations 8 and 9.

Line Lead – an output cable that is used to make external connections.

Low Voltage Connected Line to Line Resistance at 25 °C (77 °F) – low voltage star connected phase to phase resistance. For example: (T1 and T7 to T2 and T8), (T2 and T8 to T3 and T9), (T3 and T9 to T1 and T7).

Mean Length Turn (M.L.T.) – the average length of all the turns in the winding.

Number and Size of Line Leads – the quantity and cross section area of the output leads. The wire size of the line leads is listed according to the American Wire Gauge (AWG).

Pitch – The winding pitch is the ratio of the coil span to the span of the poles. The formula for the pitch is the following: $\text{Pitch} = (\text{Coil Throw} - 1) / (\text{Slots/Poles})$

Pole – number of magnetic poles in the field.

PM Frequency – the output frequency of the permanent magnet (PM) generator.

Random Wound – method of placing several small wires in uniform and in parallel layers. Each wire is randomly placed and can overlap the other while being wound. Random windings utilize coils of round wire. Refer to Illustration 7.

RD – an abbreviation for round wire.

Slot – A slot is the groove in the lamination. The number of slots is equal to the number of coils. Refer to Illustration 12.

SQ – an abbreviation for square wire.

Stack Height (Length) – the length or the height of the lamination stack. Refer to Illustration 12.

Terminal Bolt Size – The diameter of the bolt which is used to connect line lead together.

Turns Per Coil – number of times each coil is wrapped around the slot or how many turns of wire in each coil.

Turns Per Pole – how many turns of wiring on each pole.

Windings – layers of wire on a core. The winding process can be broken into two types: the routing of coils and the winding type. The routing of coils can be either concentric or lap. The winding type can be either random or layer (form).

Wire No. and Size – The wire number shows how many wires should be used to form a single coil. The wire size is given according to the American Wire Gauge (AWG).



Illustration 7

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Random Wound Wiring - Typical Example

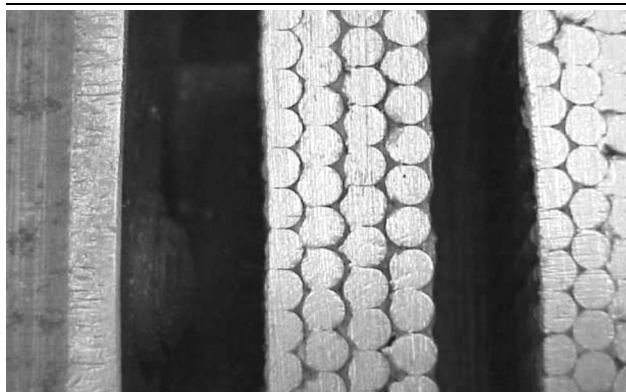


Illustration 8
Layer (Form) Wound Wiring Using the Round Wire - Typical Example

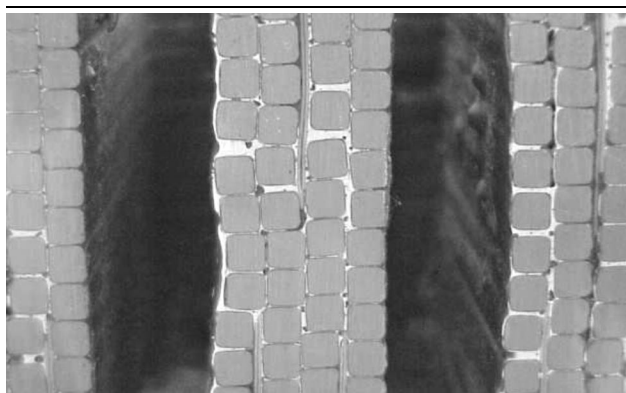


Illustration 9
Layer (Form) Wound Wiring Using the Square Wire - Typical Example

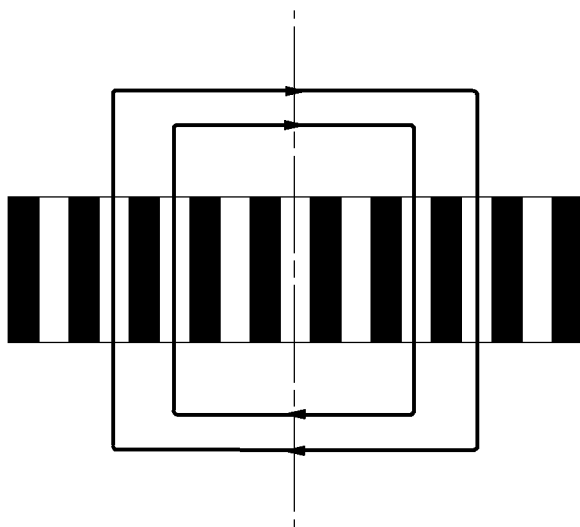


Illustration 10
Concentric Winding - Typical Example

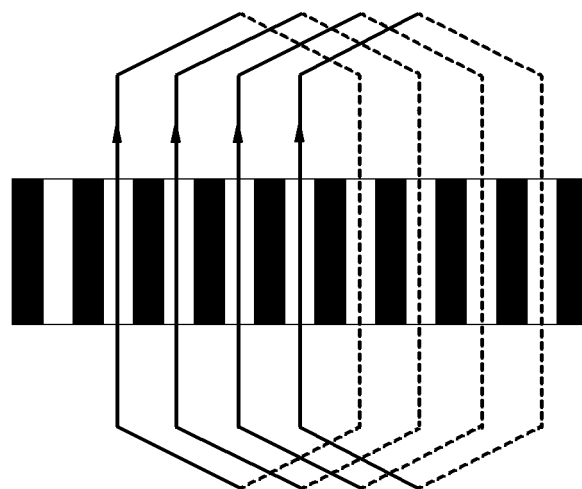


Illustration 11
Lap Winding - Typical Example

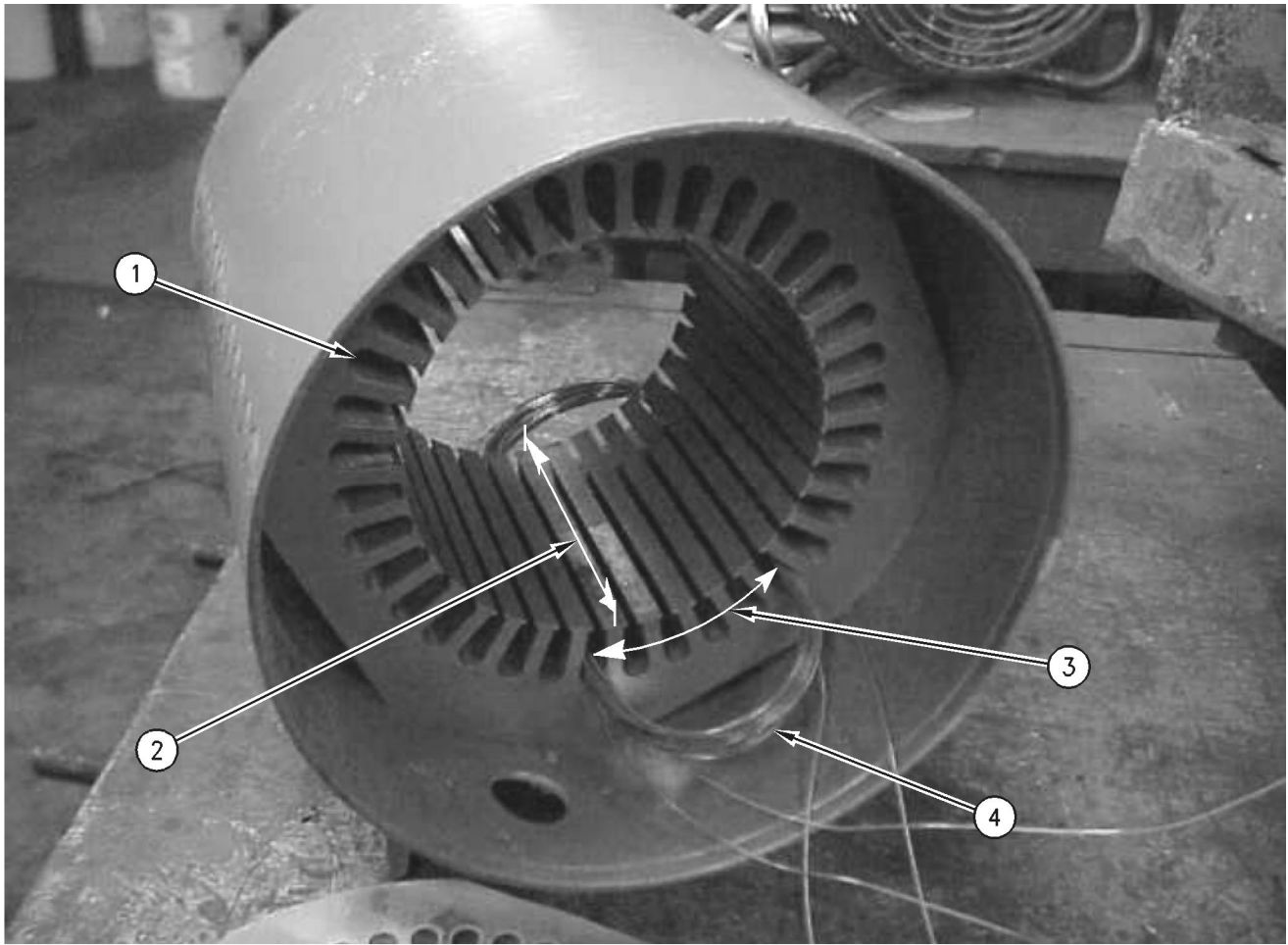


Illustration 12
Stator - Typical Example
(1) Slot
(2) Stack length (height)

(3) Coil Throw
(4) Coil

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Winding Data for 102-2415 Generator through 108-3052 Generator

SMCS Code: 4450

102-2415 Generator

Table 1

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12 inch)		304.8 mm (12 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.75 (4-4-4-3)		-
Turns/Pole	-		130
No. & Wire Size	8 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	33.7 kg (74.4 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.04355 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

102-2417 Generator

Table 2

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	47.9 kg (105.7 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #000		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0291 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

103-1254 Generator

Table 3

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	424.2 mm (16.7 inch)		431.8 mm (17 inch)
Slots	84		-
Coil Throw	1 - 19		-
Turns/Coil	2		-
Turns/Pole	-		165
No. & Wire Size	9 - #13		#7 SQ
Mean Length Turn	1724.7 mm (67.9 inch)		-
Copper Weight	62.1 kg (137 lb)		102.0 kg (224.8 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0104 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.25 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	48
Turns (Coils)	140	7	12
No. & Size Wire	1 - #15.5	2 - #15.5	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

106-3578 Generator

Table 4

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	566.4 mm (22.3 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	1		-
Turns/Pole	-		180
No. & Wire Size	40 - #14		#6.5 RD
Mean Length Turn	19873.7 mm (78.1 inch)		-
Copper Weight	93.9 kg (207 lb)		123.4 kg (272.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00485 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.732 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

106-3579 Generator

Table 5

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	566.4 mm (22.3 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	1		-
Turns/Pole	-		180
No. & Wire Size	40 - #14		#6.5 RD
Mean Length Turn	19873.7 mm (78.1 inch)		-
Copper Weight	93.9 kg (207 lb)		123.4 kg (272.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00485 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.732 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

106 - 3652 Generator

Table 6

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	660.4 mm (26 inch)		673.1 mm (26.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	3		-
Turns/Pole	-		174
No. & Wire Size	2 - 4.3 mm (0.168 inch) × 5.8 mm (0.228 inch)	3.7 mm (0.144 inch) × 7.3 mm (0.288 inch)	
Mean Length Turn	2517.1 mm (99.1 inch)		-
Copper Weight	213.0 kg (469.5 lb)		320.1 kg (705.6 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #2/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.119 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

107 - 2967 Generator

Table 7

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	172.7 mm (6.8 inch)		172.7 mm (6.8 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	Winding #1 ⁽¹⁾ 5.5 (5-6-5-6)	Winding #2 5.5 (6-5-6-5)	
Turns/Pole	-	-	130
No. & Wire Size	6 - #16	3 - #16	#8 SQ
Mean Length Turn	-	-	-
Copper Weight	25.9 kg (57.2 lb)		35.7 kg (78.7 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #2	6 - #2	-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0175 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.083 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ Tap lead X1 three turns from finish in coil group 10 (Phase 1).

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 54

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

107-3133 Generator

Table 8

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	172.7 mm (6.8 inch)		172.7 mm (6.8 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	7		-
Turns/Pole	-		130
No. & Wire Size	5 - #14		#8 SQ
Mean Length Turn	977.9 mm (38.5 inch)		-
Copper Weight	31.0 kg (68.4 lb)		35.7 kg (78.7 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.1015 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.753 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

108-3052 Generator

Table 9

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	660.4 mm (26 inch)		673.1 mm (26.5 inch)
Slots	84		-
Coil Throw	1 - 17		-
Turns/Coil	1		-
Turns/Pole	-		174
No. & Wire Size	2 - 3.8 mm (0.148 inch) × 3.9 mm (0.153 inch)	3.7 mm (0.144 inch) × 7.3 mm (0.288 inch)	
Mean Length Turn	2608.6 mm (102.7 inch)		-
Copper Weight	195.1 kg (430.1 lb)		320.1 kg (705.6 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00209 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

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Winding Data for 109 - 1595 Generator through 109 - 3774 Generator

SMCS Code: 4450

109 - 1595 Generator

Table 10

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	457.2 mm (18 inch)		457.2 mm (18 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	3.4 (4-3-3-3-4)		-
Turns/Pole	-		180
No. & Wire Size	14 - #14		#6.5 RD
Mean Length Turn	1828.8 mm (72 inch)		-
Copper Weight	104.3 kg (229.9 lb)		106.6 kg (235 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00963 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.53 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	1 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109 - 1596 Generator

Table 11

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	457.2 mm (18 inch)		457.2 mm (18 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	3.4 (4-3-3-3-4)		-
Turns/Pole	-		180
No. & Wire Size	14 - #14		#6.5 RD
Mean Length Turn	1828.8 mm (72 inch)		-
Copper Weight	104.3 kg (229.9 lb)		106.6 kg (235 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00963 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.53 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109-1597 Generator

Table 12

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	457.2 mm (18 inch)		457.2 mm (18 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	3.4 (4-3-3-3-4)		-
Turns/Pole	-		180
No. & Wire Size	14 - #14		#6.5 RD
Mean Length Turn	1828.8 mm (72 inch)		-
Copper Weight	104.3 kg (229.9 lb)		106.6 kg (235 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00963 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.53 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109 - 1598 Generator

Table 13

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	566.4 mm (22.3 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	2.8 (3-3-3-3-2)		-
Turns/Pole	-		180
No. & Wire Size	17 - #14		#6.5 RD
Mean Length Turn	1983.7 mm (78.1 inch)		-
Copper Weight	106.8 kg (235.5 lb)		123.4 kg (272 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0074 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.732 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	1 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109 - 1599 Generator

Table 14

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	566.4 mm (22.3 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	2.8 (3-3-3-3-2)		-
Turns/Pole	-		180
No. & Wire Size	17 - #14		#6.5 RD
Mean Length Turn	1983.7 mm (78.1 inch)		-
Copper Weight	106.8 kg (235.5 lb)		123.4 kg (272 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0074 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.732 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109 - 1600 Generator

Table 15

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	566.4 mm (22.3 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	2.8 (3-3-3-3-2)		-
Turns/Pole	-		180
No. & Wire Size	17 - #14		#6.5 RD
Mean Length Turn	1983.7 mm (78.1 inch)		-
Copper Weight	106.8 kg (235.5 lb)		123.4 kg (272 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0074 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.732 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109-1601 Generator

Table 16

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	457.2 mm (18.0 inch)		457.2 mm (18.0 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	2		-
Turns/Pole	-		180
No. & Wire Size	20 - #14		#6.5 RD
Mean Length Turn	1823.7 mm (71.8 inch)		-
Copper Weight	82.5 kg (181.9 lb)		106.6 kg (235.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00446 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.53 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	1 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109 - 1602 Generator

Table 17

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	457.2 mm (18.0 inch)		457.2 mm (18.0 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	2		-
Turns/Pole	-		180
No. & Wire Size	20 - #14		#6.5 RD
Mean Length Turn	1823.7 mm (71.8 inch)		-
Copper Weight	82.5 kg (181.9 lb)		106.6 kg (235.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00446 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.53 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109 - 1603 Generator

Table 18

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	457.2 mm (18.0 inch)		457.2 mm (18.0 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	2		-
Turns/Pole	-		180
No. & Wire Size	20 - #14		#6.5 RD
Mean Length Turn	1823.7 mm (71.8 inch)		-
Copper Weight	82.5 kg (181.9 lb)		106.6 kg (235.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00446 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.53 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109 - 1604 Generator

Table 19

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	566.4 mm (22.3 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.8 (1-2-2-2-2)		-
Turns/Pole	-		180
No. & Wire Size	26 - #14		#6.5 RD
Mean Length Turn	1983.7 mm (78.1 inch)		-
Copper Weight	105.0 kg (231.5 lb)		123.4 kg (272.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #00		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00319 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.732 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	1 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109 - 1605 Generator

Table 20

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	566.4 mm (22.3 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.8 (1-2-2-2-2)		-
Turns/Pole	-		180
No. & Wire Size	26 - #14		#6.5 RD
Mean Length Turn	1983.7 mm (78.1 inch)		-
Copper Weight	105.0 kg (231.5 lb)		123.4 kg (272.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #00		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00319 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.732 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109 - 1606 Generator

Table 21

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	566.4 mm (22.3 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.8 (1-2-2-2-2)		-
Turns/Pole	-		180
No. & Wire Size	26 - #14		#6.5 RD
Mean Length Turn	1983.7 mm (78.1 inch)		-
Copper Weight	105.0 kg (231.5 lb)		123.4 kg (272.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #00		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00319 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.732 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109-3375 Generator

Table 22

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	Winding #1 8 - #14	Winding #2 2 - #14 2 - #15	#8 SQ
Mean Length Turn	1186.2 mm (46.7 inch)		-
Copper Weight	37.3 kg (82.3 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	8 - #2/0	6 - #2/0	-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00603 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 56⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109-3394 Generator

Table 23

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	198.1 mm (7.8 inch)		198.1 mm (7.8 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4.5 (4-5-4-5)		-
Turns/Pole	-		130
No. & Wire Size	9 - #15		#8 SQ
Mean Length Turn	1028.7 mm (40.5 inch)		-
Copper Weight	29.9 kg (66.0 lb)		38.1 kg (84.1 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0127 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.811 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

109-3766 Generator

Table 24

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	198.1 mm (7.8 inch)		198.1 mm (7.8 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4.5 (4-5-4-5)		-
Turns/Pole	-		130
No. & Wire Size	9 - #15		#8 SQ
Mean Length Turn	1028.7 mm (40.5 inch)		-
Copper Weight	29.9 kg (66.0 lb)		38.1 kg (84.1 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0127 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.811 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	31.8 mm (1.25 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	7	12
No. & Size Wire	1 - #16	2 - #15.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	330.2 mm (13.0 inch)
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

109-3768 Generator

Table 25

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	223.5 mm (8.8 inch)		223.5 mm (8.8 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4		-
Turns/Pole	-		130
No. & Wire Size	8 - #14 and 1 - #15		#8 SQ
Mean Length Turn	1079.5 mm (42.5 inch)		-
Copper Weight	34.4 kg (75.9 lb)		40.6 kg (89.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00982 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.828 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	31.8 mm (1.25 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	7	12
No. & Size Wire	1 - #16	2 - #15.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	330.2 mm (13.0 inch)
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

109-3770 Generator

Table 26

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	223.5 mm (8.8 inch)		223.5 mm (8.8 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4		-
Turns/Pole	-		130
No. & Wire Size	8 - #14 and 1 - #15		#8 SQ
Mean Length Turn	1079.5 mm (42.5 inch)		-
Copper Weight	34.4 kg (75.9 lb)		40.6 kg (89.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00982 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.828 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	31.8 mm (1.25 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	7	12
No. & Size Wire	1 - #16	2 - #15.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	330.2 mm (13.0 inch)
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

109-3772 Generator

Table 27

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.5 (3-4-3-4)		-
Turns/Pole	-		130
No. & Wire Size	8 - #13		#8 SQ
Mean Length Turn	1165.9 mm (45.9 inch)		-
Copper Weight	36.1 kg (79.5 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00827 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	31.8 mm (1.25 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	7	12
No. & Size Wire	1 - #16	2 - #15.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	330.2 mm (13.0 inch)
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

109-3774 Generator

Table 28

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.25 (3-3-3-4)		-
Turns/Pole	-		130
No. & Wire Size	9 - #14		#8 SQ
Mean Length Turn	1231.9 mm (48.5 inch)		-
Copper Weight	31.4 kg (69.3 lb)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00895 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

i01320514

Winding Data for 109-3776 Generator through 109-3806 Generator

SMCS Code: 4450

109-3776 Generator

Table 29

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1364.0 mm (53.7 inch)		-
Copper Weight	33.7 kg (74.4 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00721 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		

(continued)

(Table 29, contd)

MAIN STATOR AND ROTOR WINDING DATA			
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 02

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

109-3778 Generator

Table 30

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1386.8 mm (54.6 inch)		-
Copper Weight	36.8 kg (81.1 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0195 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 02

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

109-3780 Generator

Table 31

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (2-2-2-3)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14 and 5 - #15		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	41.7 kg (91.9 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00459 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

109-3782 Generator

Table 32

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1645.9 mm (64.8 inch)		-
Copper Weight	52.9 kg (116.7 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.014 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

109-3784 Generator

Table 33

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.5 (3-4-3-4)		-
Turns/Pole	-		130
No. & Wire Size	18 - #13		#8 SQ
Mean Length Turn	1165.9 mm (45.9 inch)		-
Copper Weight	36.1 kg (79.5 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00827 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	31.8 mm (1.25 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	7	12
No. & Size Wire	1 - #16	2 - #15.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	330.2 mm (13.0 inch)
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

109-3786 Generator

Table 34

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.25 (3-3-3-4)		-
Turns/Pole	-		130
No. & Wire Size	9 - #14		#8 SQ
Mean Length Turn	1231.9 mm (48.5 inch)		-
Copper Weight	31.4 kg (69.3 lb)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00895 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

109-3788 Generator

Table 35

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (2-2-2-3)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14 and 5 - #15		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	41.7 kg (91.9 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00459 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

109-3790 Generator

Table 36

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1645.9 mm (64.8 inch)		-
Copper Weight	52.9 kg (116.7 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.014 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

109-3792 Generator

Table 37

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	198.1 mm (7.8 inch)		198.1 mm (7.8 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	6		-
Turns/Pole	-		130
No. & Wire Size	7 - #15		#8 SQ
Mean Length Turn	972.8 mm (38.3 inch)		-
Copper Weight	30.7 kg (67.7 lb)		38.1 kg (84.1 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0779 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.811 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	31.8 mm (1.25 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	7	12
No. & Size Wire	1 - #16	2 - #15.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	330.2 mm (13.0 inch)
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109-3794 Generator

Table 38

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	223.5 mm (8.8 inch)		223.5 mm (8.8 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	5		-
Turns/Pole	-		130
No. & Wire Size	7 - #14		#8 SQ
Mean Length Turn	1079.5 mm (42.5 inch)		-
Copper Weight	34.2 kg (75.5 lb)		40.6 kg (89.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0568 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.828 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	31.8 mm (1.25 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	7	12
No. & Size Wire	1 - #16	2 - #15.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	330.2 mm (13.0 inch)
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109-3796 Generator

Table 39

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4.5 (5-4-5-4)		-
Turns/Pole	-		130
No. & Wire Size	8 - #14		#8 SQ
Mean Length Turn	1140.5 mm (44.9 inch)		-
Copper Weight	37.2 kg (82.0 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0470 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	31.8 mm (1.25 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	7	12
No. & Size Wire	1 - #16	2 - #15.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	330.2 mm (13.0 inch)
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109-3798 Generator

Table 40

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4.25 (5-4-4-4)		-
Turns/Pole	-		130
No. & Wire Size	8 - #14		#8 SQ
Mean Length Turn	1234.4 mm (48.6 inch)		-
Copper Weight	38.6 kg (85.0 lb)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0464 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109-3800 Generator

Table 41

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	47.9 kg (105.7 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0269 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109-3802 Generator

Table 42

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (3-2-3-2)		-
Turns/Pole	-		130
No. & Wire Size	14 - #14		#8 SQ
Mean Length Turn	1645.9 mm (64.8 inch)		-
Copper Weight	51.4 kg (113.4 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0215 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

109-3804 Generator

Table 43

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	223.5 mm (8.8 inch)		223.5 mm (8.8 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.5 (3-4-3-4)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1079.5 mm (42.5 inch)		-
Copper Weight	34.5 kg (76.0 lb)		40.6 kg (89.4 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00736 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.828 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	31.8 mm (1.25 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	7	12
No. & Size Wire	1 - #16	2 - #15.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	330.2 mm (13.0 inch)
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 09

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

109-3806 Generator

Table 44

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	8.54661		-
Turns/Coil	2-2-2-1		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1430.0 mm (56.3 inch)		-
Copper Weight	50.1 kg (110.4 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00306 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 46

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

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Winding Data for 111-8240 Generator through 112-1481 Generator

SMCS Code: 4450

111-8240 Generator

Table 45

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	33.7 kg (74.4 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00712 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

111-8241 Generator

Table 46

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (2-3-2-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1353.8 mm (53.3 inch)		-
Copper Weight	40.1 kg (88.5 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00574 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

111-8242 Generator

Table 47

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (2-2-2-3)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14 and 5 - #15		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	41.7 kg (91.9 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00489 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

111 - 8243 Generator

Table 48

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1623.1 mm (63.9 inch)		-
Copper Weight	52.9 kg (116.7 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00377 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

112-1468 Generator

Table 49

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.75 (2-3-3-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	37.1 kg (81.9 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00557 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

112-1469 Generator

Table 50

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (2-2-2-3)		-
Turns/Pole	-		130
No. & Wire Size	14 - #14		#8 SQ
Mean Length Turn	1353.8 mm (53.3 inch)		-
Copper Weight	39.5 kg (87.1 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00424 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

112-1470 Generator

Table 51

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	13 - #13		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	43.7 kg (96.3 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00347 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

112-1478 Generator

Table 52

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.75 (4-4-4-3)		-
Turns/Pole	-		130
No. & Wire Size	8 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	33.7 kg (74.4 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0403 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

112-1479 Generator

Table 53

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 11		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1412.2 mm (55.6 inch)		-
Copper Weight	38.4 kg (84.6 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0293 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

112-1480 Generator

Table 54

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	47.9 kg (105.7 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0269 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

112-1481 Generator

Table 55

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (3-2-3-2)		-
Turns/Pole	-		130
No. & Wire Size	14 - #14		#8 SQ
Mean Length Turn	1645.9 mm (64.8 inch)		-
Copper Weight	51.4 kg (113.4 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0215 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

i01324073

Winding Data for 115-5101 Generator through 121-6860 Generator

SMCS Code: 4450

115-5101 Generator

Table 56

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	355.6 mm (14.0 inch)		368.3 mm (14.5 inch)
Slots	72		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.122×0.165		#6 SQ
Mean Length Turn	1651.0 mm (65.0 inch)		-
Copper Weight	113.3 kg (249.8 lb)		164.2 kg (362.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00360 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.214 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

115-5103 Generator

Table 57

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	406.4 mm (16.0 inch)		419.1 mm (16.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.122×0.165		#6 SQ
Mean Length Turn	1803.4 mm (71.0 inch)		-
Copper Weight	105.1 kg (231.5 lb)		177.3 kg (390.9 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00329 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.375 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

115-5105 Generator

Table 58

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	6 - 0.113×0.194		#6 SQ
Mean Length Turn	1955.8 mm (77.0 inch)		-
Copper Weight	181.4 kg (400.0 lb)		203.7 kg (449.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00217 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

115-5107 Generator

Table 59

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	444.5 mm (17.5 inch)		457.2 mm (18.0 inch)
Slots	96		-
Coil Throw	1 - 20		-
Turns/Coil	1		-
Turns/Pole	-		225.5
No. & Wire Size	5 - 0.136×0.272		0.145×0.302 HF
Mean Length Turn	2722.9 mm (107.2 inch)		-
Copper Weight	269.4 kg (593.9 lb)		336.2 kg (741.3 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00172 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.871 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

115-5109 Generator

Table 60

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		533.4 mm (21.0 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		225.5
No. & Wire Size	10 - 0.140×0.159		0.145×0.302 HF
Mean Length Turn	2463.8 mm (97.0 inch)		-
Copper Weight	258.5 kg (570.0 lb)		374.7 kg (826.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00112 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.970 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

115-5111 Generator

Table 61

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	571.5 mm (22.5 inch)		584.2000 mm (23.0 inch)
Slots	72		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		225.5
No. & Wire Size	10 - 0.140×0.150		0.145×0.302 HF
Mean Length Turn	2494.3 mm (98.2 inch)		-
Copper Weight	211.4 kg (466.0 lb)		393.7 kg (868.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00104 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.02 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

116-9747 Generator

Table 62

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	414.0 mm (16.3 inch)		414.0 mm (16.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	2.4 (2-3-2-3-2)		-
Turns/Pole	-		180
No. & Wire Size	18 - #14		#6.5 RD
Mean Length Turn	1678.9 mm (66.1 inch)		-
Copper Weight	82.1 kg (180.9 lb)		99.8 kg (220.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00531 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.44 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	1 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

116-9748 Generator

Table 63

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	414.0 mm (16.3 inch)		414.0 mm (16.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	2.4 (2-3-2-3-2)		-
Turns/Pole	-		180
No. & Wire Size	18 - #14		#6.5 RD
Mean Length Turn	1678.9 mm (66.1 inch)		-
Copper Weight	82.1 kg (180.9 lb)		99.8 kg (220.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00531 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.44 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

116-9749 Generator

Table 64

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	414.0 mm (16.3 inch)		414.0 mm (16.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	2.4 (2-3-2-3-2)		-
Turns/Pole	-		180
No. & Wire Size	18 - #14		#6.5 RD
Mean Length Turn	1678.9 mm (66.1 inch)		-
Copper Weight	82.1 kg (180.9 lb)		99.8 kg (220.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00531 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.44 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

116-9750 Generator

Table 65

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	414.0 mm (16.3 inch)		414.0 mm (16.3 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		180
No. & Wire Size	26 - #14		#6.5 RD
Mean Length Turn	1678.9 mm (66.1 inch)		-
Copper Weight	79.8 kg (175.9 lb)		99.8 kg (220.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0122 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.44 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	1 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 48

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

116-9751 Generator

Table 66

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	414.0 mm (16.3 inch)		414.0 mm (16.3 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		180
No. & Wire Size	26 - #14		#6.5 RD
Mean Length Turn	1678.9 mm (66.1 inch)		-
Copper Weight	79.8 kg (175.9 lb)		99.8 kg (220.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0122 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.44 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 48

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

116-9752 Generator

Table 67

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	414.0 mm (16.3 inch)		414.0 mm (16.3 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		180
No. & Wire Size	26 - #14		#6.5 RD
Mean Length Turn	1678.9 mm (66.1 inch)		-
Copper Weight	79.8 kg (175.9 lb)		99.8 kg (220.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0122 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.44 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 48

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121-3194 Generator

Table 68

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	685.8 mm (27.0 inch)		698.5 mm (27.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1.5 (1-2-1-2-1-2)		-
Turns/Pole	-		216
No. & Wire Size	18 - #13		#6 SQ
Mean Length Turn	2303.8 mm (90.7 inch)		-
Copper Weight	106.6 kg (235.0 lb)		249.0 kg (549.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	6-4 of #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00437 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.841 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 30

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

121-4611 Generator

Table 69

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	381.0 mm (15.0 inch)		393.7 mm (15.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	31 - #13		#6 SQ
Mean Length Turn	1828.8 mm (72.0 inch)		-
Copper Weight	113.4 kg (250.0 lb)		170.8 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00627 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	2 - #16	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 -4613 Generator

Table 70

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	381.0 mm (15.0 inch)		393.7 mm (15.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	31 - #13		#6 SQ
Mean Length Turn	1828.8 mm (72.0 inch)		-
Copper Weight	113.4 kg (250.0 lb)		170.8 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00627 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 42

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121-4615 Generator

Table 71

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	381.0 mm (15.0 inch)		393.7 mm (15.5 inch)
Slots	84		-
Coil Throw	1 - 6		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	6 - 0.091×0.037		#6 SQ
Mean Length Turn	1938.0 mm (76.3 inch)		-
Copper Weight	132.9 kg (293.0 lb)		170.8 kg (376.5 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00544 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121-4617 Generator

Table 72

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	406.4 mm (16.0 inch)		419.1 mm (16.5 inch)
Slots	72		-
Coil Throw	1 - 13		-
Turns/Coil	5		-
Turns/Pole	-		216
No. & Wire Size	2 - 0.129×0.133		#6 SQ
Mean Length Turn	1879.6 mm (74.0 inch)		-
Copper Weight	128.4 kg (283.0 lb)		177.3 kg (390.9 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.3840 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.375 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 4619 Generator

Table 73

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	406.4 mm (16.0 inch)		419.1 mm (16.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	19 - #13		#6 SQ
Mean Length Turn	1821.2 mm (71.7 inch)		-
Copper Weight	98.7 kg (217.6 lb)		177.3 kg (390.9 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00329 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.375 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121-4621 Generator

Table 74

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	406.4 mm (16.0 inch)		419.1 mm (16.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.122×0.165		#6 SQ
Mean Length Turn	1803.4 mm (71.0 inch)		-
Copper Weight	105.0 kg (231.5 lb)		177.3 kg (390.9 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00329 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.375 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 4623 Generator

Table 75

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	381.0 mm (15.0 inch)		393.7 mm (15.5 inch)
Slots	72		-
Coil Throw	1 - 13		-
Turns/Coil	3		-
Turns/Pole	-		216
No. & Wire Size	16 - #14		#6 SQ
Mean Length Turn	1719.6 mm (67.7 inch)		-
Copper Weight	112.0 kg (247.0 lb)		170.8 kg (376.5 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00836 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 4625 Generator

Table 76

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		444.5 mm (17.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	39 - #13		#6 SQ
Mean Length Turn	1963.4 mm (77.3 inch)		-
Copper Weight	144.2 kg (318.0 lb)		183.7 kg (405.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00461 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.380 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	2 - #16	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121-4627 Generator

Table 77

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		444.5 mm (17.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	39 - #13		#6 SQ
Mean Length Turn	1963.4 mm (77.3 inch)		-
Copper Weight	144.2 kg (318.0 lb)		183.7 kg (405.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00461 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.380 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 42

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 4629 Generator

Table 78

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		444.5 mm (17.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	4 - #7 1/2 SQ		#6 SQ
Mean Length Turn	1938.0 mm (76.3 inch)		-
Copper Weight	119.1 kg (262.5 lb)		183.7 kg (405.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00523 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.380 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 6848 Generator

Table 79

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	355.6 mm (14.0 inch)		368.3 mm (14.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	3		-
Turns/Pole	-		216
No. & Wire Size	15 - #13		#6 SQ
Mean Length Turn	1752.6 mm (69.0 inch)		-
Copper Weight	112.9 kg (249.0 lb)		164.2 kg (362.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00647 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.214 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	2 - #16	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 60

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 6850 Generator

Table 80

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	355.6 mm (14.0 inch)		368.3 mm (14.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	3		-
Turns/Pole	-		216
No. & Wire Size	15 - #13		#6 SQ
Mean Length Turn	1752.6 mm (69.0 inch)		-
Copper Weight	112.9 kg (249.0 lb)		164.2 kg (362.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00647 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.214 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 6852 Generator

Table 81

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	355.6 mm (14.0 inch)		368.3 mm (14.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	3		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.091×0.215		#6 SQ
Mean Length Turn	1727.2 mm (68.0 inch)		-
Copper Weight	142.4 kg (314.0 lb)		164.2 kg (362.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.214 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 6854 Generator

Table 82

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	355.6 mm (14.0 inch)		368.3 mm (14.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	7		-
Turns/Pole	-		216
No. & Wire Size	2 - 0.098×0.177		#6 SQ
Mean Length Turn	1709.4 mm (67.3 inch)		-
Copper Weight	142.5 kg (314.1 lb)		164.2 kg (362.0 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.4050 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.214 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 6856 Generator

Table 83

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	355.6 mm (14.0 inch)		368.3 mm (14.5 inch)
Slots	66		-
Coil Throw	1 - 12		-
Turns/Coil	5		-
Turns/Pole	-		216
No. & Wire Size	18 - #13		#6 SQ
Mean Length Turn	1676.4 mm (66.0 inch)		-
Copper Weight	103.8721 kg (229.0 lb)		164.2 kg (362.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00385 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.214 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 6858 Generator

Table 84

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	355.6 mm (14.0 inch)		368.3 mm (14.5 inch)
Slots	72		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.122×0.165		#6 SQ
Mean Length Turn	1651.0 mm (65.0 inch)		-
Copper Weight	113.4 kg (250.0 lb)		164.2 kg (362.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00360 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.214 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 6860 Generator

Table 85

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	355.6 mm (14.0 inch)		368.3 mm (14.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	3		-
Turns/Pole	-		216
No. & Wire Size	13 - #13		#6 SQ
Mean Length Turn	1739.9 mm (68.5 inch)		-
Copper Weight	116.1 kg (256.0 lb)		164.2 kg (362.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00826 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.214 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

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Winding Data for 121-6882 Generator through 123-3185 Generator

SMCS Code: 4450

121-6882 Generator

Table 86

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3000 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1623.1 mm (63.9 inch)		-
Copper Weight	52.9 kg (116.7 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00377 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		

(continued)

(Table 86, contd)

MAIN STATOR AND ROTOR WINDING DATA			
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 6884 Generator

Table 87

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3000 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (3-2-3-2)		-
Turns/Pole	-		130
No. & Wire Size	14 - #14		#8 SQ
Mean Length Turn	1645.9 mm (64.8 inch)		-
Copper Weight	51.4 kg (113.4 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0215 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 6885 Generator

Table 88

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (2-2-2-3)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14 and 5 - #15		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	41.7 kg (91.9 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00489 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 6886 Generator

Table 89

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	13 - #13		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	2446.0 mm (96.3 inch)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00347 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 6887 Generator

Table 90

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	47.9 kg (105.7 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0269 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 6888 Generator

Table 91

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (2-3-2-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1353.8 mm (53.3 inch)		-
Copper Weight	40.1 kg (88.5 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00574 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

121 - 6889 Generator

Table 92

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (2-2-2-3)		-
Turns/Pole	-		130
No. & Wire Size	14 - #14		#8 SQ
Mean Length Turn	1353.8 mm (53.3 inch)		-
Copper Weight	39.5 kg (87.1 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00424 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 6890 Generator

Table 93

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 11		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1412.2 mm (55.6 inch)		-
Copper Weight	38.4 kg (84.6 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0293 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121-6891 Generator

Table 94

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	33.7 kg (74.4 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00712 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

121 - 6892 Generator

Table 95

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.75 (2-3-3-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	37.1 kg (81.9 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00557 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

121 - 6893 Generator

Table 96

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.75 (4-4-4-3)		-
Turns/Pole	-		130
No. & Wire Size	8 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	33.7 kg (74.4 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0403 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

122 - 1178 Generator

Table 97

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	22 - #13		#6 SQ
Mean Length Turn	2082.8 mm (82.0 inch)		-
Copper Weight	130.6 kg (288.0 lb)		203.7 kg (449.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00360 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	2 - #16	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 60

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

122 - 1180 Generator

Table 98

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	22 - #13		#6 SQ
Mean Length Turn	2082.8 mm (82.0 inch)		-
Copper Weight	130.6 kg (288.0 lb)		203.7 kg (449.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00360 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

122 - 1182 Generator

Table 99

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	6 - 0.098×0.168		#6 SQ
Mean Length Turn	2057.4 mm (81.0 inch)		-
Copper Weight	143.8 kg (317.1 lb)		203.7 kg (449.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00337 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

122-1184 Generator

Table 100

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	5		-
Turns/Pole	-		216
No. & Wire Size	2 - 0.145×0.177		#6 SQ
Mean Length Turn	2014.2 mm (79.3 inch)		-
Copper Weight	177.4 kg (391.0 lb)		203.7 kg (449.0 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.2270 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

122 - 1186 Generator

Table 101

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1.5		-
Turns/Pole	-		216
No. & Wire Size	33 - #13		#6 SQ
Mean Length Turn	2176.8 mm (85.7 inch)		-
Copper Weight	184.4 kg (406.5 lb)		203.7 kg (449.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00203 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

122 - 1188 Generator

Table 102

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	6 - 0.113×0.194		#6 SQ
Mean Length Turn	1955.8 mm (77.0 inch)		-
Copper Weight	181.4 kg (400.0 lb)		203.7 kg (449.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00249 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

122 - 1190 Generator

Table 103

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2.6		-
Turns/Pole	-		216
No. & Wire Size	20 - #13		#6 SQ
Mean Length Turn	2159.0000 mm (85.0 inch)		-
Copper Weight	160.1 kg (353.0 lb)		203.7 kg (449.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00521 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

123-3183 Generator

Table 104

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	13 - #15		#8 SQ
Mean Length Turn	1186.2 mm (46.7 inch)		-
Copper Weight	33.2 kg (73.2 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00736 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

123-3184 Generator

Table 105

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	381.0 mm (15.0 inch)		419.1 mm (16.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	14 - #14		#8 SQ
Mean Length Turn	1379.2 mm (54.3 inch)		-
Copper Weight	43.7 kg (96.4 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00426 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

123-3185 Generator

Table 106

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	17 - #14		#8 SQ
Mean Length Turn	1567.2 mm (61.7 inch)		-
Copper Weight	48.2 kg (106.3 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00405 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

i01327889

Winding Data for 129 - 1502 Generator through 129 - 5034 Generator

SMCS Code: 4450

129 - 1502 Generator

Table 107

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3000 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1623.1 mm (63.9 inch)		-
Copper Weight	52.9 kg (116.7 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00377 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129 - 1503 Generator

Table 108

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3000 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1623.1 mm (63.9 inch)		-
Copper Weight	52.9 kg (116.7 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00377 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129 - 1504 Generator

Table 109

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3000 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (3-2-3-2)		-
Turns/Pole	-		130
No. & Wire Size	14 - #14		#8 SQ
Mean Length Turn	1645.9 mm (64.8 inch)		-
Copper Weight	51.4 kg (113.4 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0215 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129-1505 Generator

Table 110

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3000 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (3-2-3-2)		-
Turns/Pole	-		130
No. & Wire Size	14 - #14		#8 SQ
Mean Length Turn	1645.9 mm (64.8 inch)		-
Copper Weight	51.4 kg (113.4 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0215 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129-1506 Generator

Table 111

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (2-2-2-3)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14 and 5 - #15		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	41.7 kg (91.9 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00489 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129-1507 Generator

Table 112

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (2-2-2-3)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14 and 5 - #15		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	41.7 kg (91.9 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00489 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129 - 1508 Generator

Table 113

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	47.9 kg (105.7 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0269 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129-1509 Generator

Table 114

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	47.9 kg (105.7 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0269 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129-1510 Generator

Table 115

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (2-3-2-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1353.8 mm (53.3 inch)		-
Copper Weight	40.1 kg (88.5 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00574 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

129-1511 Generator

Table 116

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (2-3-2-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1353.8 mm (53.3 inch)		-
Copper Weight	40.1 kg (88.5 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00574 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

129-1512 Generator

Table 117

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 11		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1412.2 mm (55.6 inch)		-
Copper Weight	38.4 kg (84.6 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0293 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129-1513 Generator

Table 118

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 11		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1412.2 mm (55.6 inch)		-
Copper Weight	38.4 kg (84.6 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0293 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129-1514 Generator

Table 119

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	33.7 kg (74.4 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00712 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

129-1515 Generator

Table 120

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	33.7 kg (74.4 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00712 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

129-1516 Generator

Table 121

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.75 (4-4-4-3)		-
Turns/Pole	-		130
No. & Wire Size	8 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	33.7 kg (74.4 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0403 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129-1517 Generator

Table 122

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.75 (4-4-4-3)		-
Turns/Pole	-		130
No. & Wire Size	8 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	33.7 kg (74.4 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0403 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129-1518 Generator

Table 123

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.25 (3-3-3-4)		-
Turns/Pole	-		130
No. & Wire Size	9 - #14		#8 SQ
Mean Length Turn	1231.9 mm (48.5 inch)		-
Copper Weight	31.4 kg (69.3 lb)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00895 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129-1519 Generator

Table 124

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.25 (3-3-3-4)		-
Turns/Pole	-		130
No. & Wire Size	9 - #14		#8 SQ
Mean Length Turn	1231.9 mm (48.5 inch)		-
Copper Weight	31.4 kg (69.3 lb)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00895 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129 - 1520 Generator

Table 125

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4.25 (5-4-4-4)		-
Turns/Pole	-		130
No. & Wire Size	8 - #14		#8 SQ
Mean Length Turn	1234.4 mm (48.6 inch)		-
Copper Weight	38.6 kg (85.0 lb)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0464 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129-1521 Generator

Table 126

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4.25 (5-4-4-4)		-
Turns/Pole	-		130
No. & Wire Size	8 - #14		#8 SQ
Mean Length Turn	1234.4 mm (48.6 inch)		-
Copper Weight	38.6 kg (85.0 lb)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0464 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129 - 1522 Generator

Table 127

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.5 (3-4-3-4)		-
Turns/Pole	-		130
No. & Wire Size	8 - #13		#8 SQ
Mean Length Turn	1165.9 mm (45.9 inch)		-
Copper Weight	36.1 kg (79.5 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00827 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	31.8 mm (1.25 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	7	12
No. & Size Wire	1 - #16	2 - #15.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	330.2 mm (13.0 inch)
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

129-1523 Generator

Table 128

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.5 (3-4-3-4)		-
Turns/Pole	-		130
No. & Wire Size	8 - #13		#8 SQ
Mean Length Turn	1165.9 mm (45.9 inch)		-
Copper Weight	36.1 kg (79.5 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00827 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

129 - 1524 Generator

Table 129

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4.5 (5-4-5-4)		-
Turns/Pole	-		130
No. & Wire Size	8 - #14		#8 SQ
Mean Length Turn	1140.5 mm (44.9 inch)		-
Copper Weight	37.2 kg (82.0 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0470 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	31.8 mm (1.25 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	7	12
No. & Size Wire	1 - #16	2 - #15.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	330.2 mm (13.0 inch)
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129-1525 Generator

Table 130

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4.5 (5-4-5-4)		-
Turns/Pole	-		130
No. & Wire Size	8 - #14		#8 SQ
Mean Length Turn	1140.5 mm (44.9 inch)		-
Copper Weight	37.2 kg (82.0 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0470 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

129-5034 Generator

Table 131

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23.0 inch)		584.2 mm (23.0 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	50 - #14		#6.5 RD
Mean Length Turn	2146.3 mm (84.5 inch)		-
Copper Weight	121.6 kg (268.0 lb)		135.2 kg (298.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00120 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.95 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

i01329138

Winding Data for 130-0234 Generator through 130-7595 Generator

SMCS Code: 4450

130-0234 Generator

Table 132

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23.0 inch)		584.2 mm (23.0 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	50 - #14		#6.5 RD
Mean Length Turn	2146.3 mm (84.5 inch)		-
Copper Weight	121.6 kg (268.0 lb)		135.2 kg (298.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00120 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.95 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	1 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-0235 Generator

Table 133

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23.0 inch)		584.2 mm (23.0 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	50 - #14		#6.5 RD
Mean Length Turn	2146.3 mm (84.5 inch)		-
Copper Weight	121.6 kg (268.0 lb)		135.2 kg (298.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00120 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.95 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-4721 Generator

Table 134

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	13 - #13		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	43.7 kg (96.3 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00347 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-4722 Generator

Table 135

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	13 - #13		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	43.7 kg (96.3 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00347 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-4723 Generator

Table 136

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (2-2-2-3)		-
Turns/Pole	-		130
No. & Wire Size	14 - #14		#8 SQ
Mean Length Turn	1353.8 mm (53.3 inch)		-
Copper Weight	39.5 kg (87.1 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00424 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-4724 Generator

Table 137

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (2-2-2-3)		-
Turns/Pole	-		130
No. & Wire Size	14 - #14		#8 SQ
Mean Length Turn	1353.8 mm (53.3 inch)		-
Copper Weight	39.5 kg (87.1 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00424 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-4725 Generator

Table 138

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.75 (2-3-3-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	37.1 kg (81.9 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00557 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-4726 Generator

Table 139

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.75 (2-3-3-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	37.1 kg (81.9 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00557 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-7582 Generator

Table 140

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.25 (3-3-3-4)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1143.0 mm (45.0 inch)		-
Copper Weight	33.6 kg (74.0 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0070 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	31.8 mm (1.25 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	7	12
No. & Size Wire	1 - #16	2 - #15.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	330.2 mm (13.0 inch)
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-7583 Generator

Table 141

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.25 (3-3-3-4)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1143.0 mm (45.0 inch)		-
Copper Weight	33.6 kg (74.0 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0070 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-7584 Generator

Table 142

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	1.5 (2-1-2-1)		-
Turns/Pole	-		130
No. & Wire Size	18 - #13		#8 SQ
Mean Length Turn	1623.1 mm (63.9 inch)		-
Copper Weight	50.0 kg (110.3 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	8 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00835 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 50

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-7585 Generator

Table 143

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	1.5 (2-1-2-1)		-
Turns/Pole	-		130
No. & Wire Size	18 - #13		#8 SQ
Mean Length Turn	1623.1 mm (63.9 inch)		-
Copper Weight	50.0 kg (110.3 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	8 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00835 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 50

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-7586 Generator

Table 144

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	1.75 (1-2-2-2)		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	42.0 kg (92.5 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	8 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.01082 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 50

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-7587 Generator

Table 145

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	1.75 (1-2-2-2)		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	42.0 kg (92.5 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	8 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.01082 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 50

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-7588 Generator

Table 146

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.6800 mm (14.2 inch)		360.6800 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	16 - #14		#8 SQ
Mean Length Turn	1353.8 mm (53.3 inch)		-
Copper Weight	39.2 kg (86.5 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	8 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0133 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 50

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-7589 Generator

Table 147

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.6800 mm (14.2 inch)		360.6800 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	16 - #14		#8 SQ
Mean Length Turn	1353.8 mm (53.3 inch)		-
Copper Weight	39.2 kg (86.5 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	8 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0133 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 50

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-7590 Generator

Table 148

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (2-3-2-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1244.6 mm (49.0 inch)		-
Copper Weight	33.6 kg (74.0 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0179 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 51

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-7591 Generator

Table 149

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (2-3-2-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1244.6 mm (49.0 inch)		-
Copper Weight	33.6 kg (74.0 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0179 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 51

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-7592 Generator

Table 150

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	5.5 (5-6-5-6)		-
Turns/Pole	-		130
No. & Wire Size	6 - #14		#8 SQ
Mean Length Turn	1186.2 mm (46.7 inch)		-
Copper Weight	35.4 kg (78.0 lb)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #6		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0205 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 52

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-7593 Generator

Table 151

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	5.5 (5-6-5-6)		-
Turns/Pole	-		130
No. & Wire Size	6 - #14		#8 SQ
Mean Length Turn	1186.2 mm (46.7 inch)		-
Copper Weight	35.4 kg (78.0 lb)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #6		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0205 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 52

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-7594 Generator

Table 152

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	11 - #14		#8 SQ
Mean Length Turn	1143.0 mm (45.0 inch)		-
Copper Weight	34.0 kg (75.0 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.02154 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	31.8 mm (1.25 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	7	12
No. & Size Wire	1 - #16	2 - #15.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	330.2 mm (13.0 inch)
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 51

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

130-7595 Generator

Table 153

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	11 - #14		#8 SQ
Mean Length Turn	1143.0 mm (45.0 inch)		-
Copper Weight	34.0 kg (75.0 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.02154 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 51

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

i01342505

Winding Data for 141 - 5534 Generator through 142 - 4935 Generator

SMCS Code: 4450

141 - 5534 Generator

Table 154

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.5 (3-4-3-4)		-
Turns/Pole	-		130
No. & Wire Size	8 - #13		#8 SQ
Mean Length Turn	1165.9 mm (45.9 inch)		-
Copper Weight	36.1 kg (79.5 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00827 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		

(continued)

(Table 154, contd)

MAIN STATOR AND ROTOR WINDING DATA			
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

141 - 5535 Generator

Table 155

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 11		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	11 - #14		#8 SQ
Mean Length Turn	1198.9 mm (47.2 inch)		-
Copper Weight	35.8 kg (79.0 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00645 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

141 - 5536 Generator

Table 156

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.25 (3-3-3-4)		-
Turns/Pole	-		130
No. & Wire Size	9 - #14		#8 SQ
Mean Length Turn	1231.9 mm (48.5 inch)		-
Copper Weight	31.4 kg (69.3 lb)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00895 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

141 - 5537 Generator

Table 157

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 11		-
Turns/Coil	2.75 (2-3-3-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1244.6 mm (49.0 inch)		-
Copper Weight	37.2 kg (82.0 lb)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00493 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

141 - 5538 Generator

Table 158

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	33.7 kg (74.4 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00712 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

141 - 5539 Generator

Table 159

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (2-3-2-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1244.6 mm (49.0 inch)		-
Copper Weight	33.6 kg (74.0 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00448 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

141 - 5540 Generator

Table 160

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (2-3-2-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1353.8 mm (53.3 inch)		-
Copper Weight	40.1 kg (88.5 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00574 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

141-5541 Generator

Table 161

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	16 - #14		#8 SQ
Mean Length Turn	1422.4 mm (56.0 inch)		-
Copper Weight	40.8 kg (90.0 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00305 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

141 -5542 Generator

Table 162

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (2-2-2-3)		-
Turns/Pole	-		130
No. & Wire Size	7 - #14 and 7 - #13.5		#8 SQ
Mean Length Turn	1473.2 mm (58.0 inch)		-
Copper Weight	44.5 kg (98.0 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00386 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

141 - 5543 Generator

Table 163

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 11		-
Turns/Coil	1.75 (1-2-2-2)		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1524.0 mm (60.0 inch)		-
Copper Weight	43.5 kg (96.0 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00257 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

141 - 5544 Generator

Table 164

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	14 - #14 and 4 - #13.5		#8 SQ
Mean Length Turn	1783.1 mm (70.2 inch)		-
Copper Weight	54.4 kg (120.0 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00304 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

141 - 5545 Generator

Table 165

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	1.75 (1-2-2-2)		-
Turns/Pole	-		130
No. & Wire Size	14 - #14 and 4 - #13.5		#8 SQ
Mean Length Turn	1625.6 mm (64.0 inch)		-
Copper Weight	47.2 kg (104.0 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00265 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 50

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

141 - 5546 Generator

Table 166

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (2-3-2-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1353.8 mm (53.3 inch)		-
Copper Weight	40.1 kg (88.5 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00574 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

141 - 5547 Generator

Table 167

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	16 - #14		#8 SQ
Mean Length Turn	1422.4 mm (56.0 inch)		-
Copper Weight	40.8 kg (90.0 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00305 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

142-4935 Generator

Table 168

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1623.1 mm (63.9 inch)		-
Copper Weight	52.9 kg (116.7 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00377 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		8
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	6	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	8	12
No. & Size Wire	1 - #16	2 - #16	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	330.2 mm (13.0 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Star
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

i01564807

Winding Data for 144-0469 Generator through 144-0583 Generator

SMCS Code: 4450

144 - 0469 Generator

Table 169

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	14 - #14, 4 - #13.5		#8 SQ
Mean Length Turn	1623.1 mm (63.9 inch)		-
Copper Weight	#14 - 41.3 kg (91 lb) #13.5 - 13.2 kg (29 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00370 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.400 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.7 mm (1.25 inch)
Coils/Group	-	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	9	12
No. & Size Wire	1 - #16	2 - #16.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	419.1 mm (16.5 inch)	330.2 mm (13 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Wye
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-0571 Generator

Table 170

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254 mm (10 inch)		254 mm (10 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.5 (3-4-3-4)		-
Turns/Pole	-		130
No. & Wire Size	8 - #13		#8 SQ
Mean Length Turn	1165.9 mm (45.90 inch)		-
Copper Weight	36.1 kg (79.5 lb)		43.4 kg (95.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00799 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.7 mm (1.25 inch)
Coils/Group	-	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	9	12
No. & Size Wire	1 - #16	2 - #16.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	419.1 mm (16.5 inch)	330.2 mm (13 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Wye
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 62

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 0572 Generator

Table 171

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254 mm (10 inch)		254 mm (10 inch)
Slots	48		-
Coil Throw	1 - 11		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	11 - #14		#8 SQ
Mean Length Turn	1198.9 mm (47.2 inch)		-
Copper Weight	35.8 kg (79 lb)		43.4 kg (95.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	12 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00645 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.7 mm (1.25 inch)
Coils/Group	-	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	9	12
No. & Size Wire	1 - #16	2 - #16.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	419.1 mm (16.5 inch)	330.2 mm (13 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Wye
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-0573 Generator

Table 172

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.25 (3-3-3-4)		-
Turns/Pole	-		130
No. & Wire Size	9 - #14		#8 SQ
Mean Length Turn	1231.9 mm (48.5 inch)		-
Copper Weight	31.4 kg (69.3 lb)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00895 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.7 mm (1.25 inch)
Coils/Group	-	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	9	12
No. & Size Wire	1 - #16	2 - #16.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	419.1 mm (16.5 inch)	330.2 mm (13 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Wye
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 62

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-0574 Generator

Table 173

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 11		-
Turns/Coil	2.75 (2-3-3-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1244.6 mm (49.0 inch)		-
Copper Weight	37.2 kg (82 lb)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	12 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00552 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.7 mm (1.25 inch)
Coils/Group	-	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	9	12
No. & Size Wire	1 - #16	2 - #16.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	419.1 mm (16.5 inch)	330.2 mm (13 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Wye
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-0575 Generator

Table 174

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12 inch)		304.8 mm (12 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1242.1 mm (48.9 inch)		-
Copper Weight	33.7 kg (74.4 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		Series
Line Leads (No. & Size)	12 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00737 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.7 mm (1.25 inch)
Coils/Group	-	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	9	12
No. & Size Wire	1 - #16	2 - #16.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	419.1 mm (16.5 inch)	330.2 mm (13 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Wye
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-0576 Generator

Table 175

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12 inch)		304.8 mm (12 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (2-3-2-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1244.6 mm (49.0 inch)		-
Copper Weight	33.6 kg (74 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	12 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00529 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.7 mm (1.25 inch)
Coils/Group	-	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	9	12
No. & Size Wire	1 - #16	2 - #16.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	419.1 mm (16.5 inch)	330.2 mm (13 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Wye
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-0577 Generator

Table 176

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (2-3-2-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1353.8 mm (53.3 inch)		-
Copper Weight	40.1 kg (88.5 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		Series
Line Leads (No. & Size)	12 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00574 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.7 mm (1.25 inch)
Coils/Group	-	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	9	12
No. & Size Wire	1 - #16	2 - #16.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	419.1 mm (16.5 inch)	330.2 mm (13 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Wye
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 0578 Generator

Table 177

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	16 - #14		#8 SQ
Mean Length Turn	1422.4 mm (56.0 inch)		-
Copper Weight	40.8 kg (90 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00392 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.7 mm (1.25 inch)
Coils/Group	-	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	9	12
No. & Size Wire	1 - #16	2 - #16.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	419.1 mm (16.5 inch)	330.2 mm (13 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Wye
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-0579 Generator

Table 178

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (2-2-2-3)		-
Turns/Pole	-		130
No. & Wire Size	7 - #14, 7 - #13.5		#8 SQ
Mean Length Turn	1473.2 mm (58.0 inch)		-
Copper Weight	#14 - 20.9 kg (46 lb) #13.5 - 23.6 kg (52 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00471 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.7 mm (1.25 inch)
Coils/Group	-	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	9	12
No. & Size Wire	1 - #16	2 - #16.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	419.1 mm (16.5 inch)	330.2 mm (13 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Wye
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 0580 Generator

Table 179

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 11		-
Turns/Coil	1.75 (1-2-2-2)		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1524.0 mm (60.0 inch)		-
Copper Weight	43.5 kg (96 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00323 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.7 mm (1.25 inch)
Coils/Group	-	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	9	12
No. & Size Wire	1 - #16	2 - #16.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	419.1 mm (16.5 inch)	330.2 mm (13 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Wye
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-0581 Generator

Table 180

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	1.5 (2-1-2-1)		-
Turns/Pole	-		130
No. & Wire Size	18 - #13		#8 SQ
Mean Length Turn	1623.1 mm (63.9 inch)		-
Copper Weight	50.0 kg (110.3 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	8 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00835 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.400 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.7 mm (1.25 inch)
Coils/Group	-	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	9	12
No. & Size Wire	1 - #16	2 - #16.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	419.1 mm (16.5 inch)	330.2 mm (13 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Wye
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 50

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 0582 Generator

Table 181

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (2-3-2-3)		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1353.8 mm (53.3 inch)		-
Copper Weight	40.1 kg (88.5 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		Series
Line Leads (No. & Size)	12 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00574 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.7 mm (1.25 inch)
Coils/Group	-	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	9	12
No. & Size Wire	1 - #16	2 - #16.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	419.1 mm (16.5 inch)	330.2 mm (13 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Wye
Line Leads	2 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-0583 Generator

Table 182

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	16 - #14		#8 SQ
Mean Length Turn	1422.4 mm (56.0 inch)		-
Copper Weight	40.8 kg (90 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00392 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	120 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.7 mm (1.25 inch)
Coils/Group	-	2	1
Slots (Coils)	6	36	24
Turns (Coils)	150	9	12
No. & Size Wire	1 - #16	2 - #16.5	2 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	419.1 mm (16.5 inch)	330.2 mm (13 inch)
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	0.5 kg (1 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Wye
Line Leads	2 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

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Winding Data for 144-1705 Generator through 144-1759 Generator

SMCS Code: 4450

144 - 1705 Generator

Table 183

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		609.6 mm (24 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	62 - #13		#6 SQ
Mean Length Turn	2301.2 mm (90.6 inch)		-
Copper Weight	204.1 kg (450 lb)		225.4 kg (497 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00292 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.666 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	48
Turns (Coils)	140	9	12
No. & Size Wire	1 - #15.5	1 - #16 1 - #16.5	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	515.6 mm (20.3 inch)	431.8 mm (17 inch)	208.2 mm (8.2 inch)
Copper Weight	6.0 kg (13.3 lb)	3.1 kg (6.9 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 61

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-1713 Generator

Table 184

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		533.4 mm (21 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	80 - #13		0.142x0.305
Mean Length Turn	2118.3 mm (83.4 inch)		-
Copper Weight	241.7 kg (533 lb)		371.9 kg (820 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00231 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9324 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 61

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-1715 Generator

Table 185

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23 inch)		596.9 mm (23.5 inch)
Slots	96		-
Coil Throw	1 - 20		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	41 - #13		0.142x0.305
Mean Length Turn	2379.4 mm (93.68 inch)		-
Copper Weight	221.3 kg (488 lb)		400.1 kg (882 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00190 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.003 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-1717 Generator

Table 186

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	660.4 mm (26 inch)		673.1 mm (26.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	58 - #14		0.142x0.305
Mean Length Turn	2550.1 mm (100.4 inch)		-
Copper Weight	235.8 kg (520 lb)		435.4 kg (960 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00147 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.077 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 1723 Generator

Table 187

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22 inch)		571.5 mm (22.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	53 - #13		#6 SQ
Mean Length Turn	2128.5 mm (83.8 inch)		-
Copper Weight	161.0 kg (355 lb)		216.3 kg (477 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00319 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.660 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	48
Turns (Coils)	140	9	12
No. & Size Wire	1 - #15.5	1 - #16 1 - #16.5	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	515.6 mm (20.3 inch)	431.8 mm (17 inch)	208.2 mm (8.2 inch)
Copper Weight	6.0 kg (13.3 lb)	3.1 kg (6.9 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 61

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-1745 Generator

Table 188

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		381.0 mm (15 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	27 - #13		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	95.2 kg (210 lb)		166.6 kg (367.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00623 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.232 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-1747 Generator

Table 189

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		381.0 mm (15 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	27 - #13		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	95.2 kg (210 lb)		166.6 kg (367.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00623 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.232 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-1749 Generator

Table 190

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		393.7 mm (15.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	40 - #13		#6 SQ
Mean Length Turn	1833.8 mm (72.2 inch)		-
Copper Weight	127.0 kg (280 lb)		170.7 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00418 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-1751 Generator

Table 191

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		393.7 mm (15.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	40 - #13		#6 SQ
Mean Length Turn	1833.8 mm (72.2 inch)		-
Copper Weight	127.0 kg (280 lb)		170.7 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00418 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-1753 Generator

Table 192

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	450.8 mm (17.75 inch)		469.9 mm (18.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	37 - #13		#6 SQ
Mean Length Turn	1925.3 mm (75.8 inch)		-
Copper Weight	122.4 kg (270 lb)		189.6 kg (418 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00141 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.401 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 1755 Generator

Table 193

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	450.8 mm (17.75 inch)		469.9 mm (18.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	37 - #13		#6 SQ
Mean Length Turn	1925.3 mm (75.8 inch)		-
Copper Weight	122.4 kg (270 lb)		189.6 kg (418 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00141 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.401 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-1757 Generator

Table 194

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	40 - #13		#6 SQ
Mean Length Turn	1953.2 mm (76.9 inch)		-
Copper Weight	113.4 kg (250 lb)		203.6 kg (449 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00119 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 1759 Generator

Table 195

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	40 - #13		#6 SQ
Mean Length Turn	1953.2 mm (76.9 inch)		-
Copper Weight	113.4 kg (250 lb)		203.6 kg (449 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00119 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

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Winding Data for 144-1811 Generator through 144-1951 Generator

SMCS Code: 4450

144 - 1811 Generator

Table 196

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22 inch)		571.5 mm (22.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	12 - 0.112x0.215		#6 SQ
Mean Length Turn	1963.4 mm (77.3 inch)		-
Copper Weight	217.7 kg (480 lb)		216.3 kg (477 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00250 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.660 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	48
Turns (Coils)	140	9	12
No. & Size Wire	1 - #15.5	1 - #16 1 - #16.5	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	515.6 mm (20.3 inch)	431.8 mm (17 inch)	208.2 mm (8.2 inch)
Copper Weight	6.0 kg (13.3 lb)	3.1 kg (6.9 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		

(continued)

(Table 196, contd)

MAIN STATOR AND ROTOR WINDING DATA			
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 1813 Generator

Table 197

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		609.6 mm (24 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	10 - 0.150x0.225		#6 SQ
Mean Length Turn	2301.2 mm (90.6 inch)		-
Copper Weight	263.0 kg (582 lb)		225.4 kg (497 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00219 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.666 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	48
Turns (Coils)	140	9	12
No. & Size Wire	1 - #15.5	1 - #16 1 - #16.5	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	515.6 mm (20.3 inch)	431.8 mm (17 inch)	208.2 mm (8.2 inch)
Copper Weight	6.0 kg (13.3 lb)	3.1 kg (6.9 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 61

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-1819 Generator

Table 198

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		533.4 mm (21 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	12 - 0.139x0.255		0.142x0.305
Mean Length Turn	2118.3 mm (83.4 inch)		-
Copper Weight	294.8 kg (650 lb)		371.9 kg (820 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00187 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9324 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 61

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 1823 Generator

Table 199

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23 inch)		596.9 mm (23.5 inch)
Slots	96		-
Coil Throw	1 - 19		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	7 - 0.099x0.303		0.142x0.305
Mean Length Turn	2580.6 mm (101.6 inch)		-
Copper Weight	297.1 kg (655 lb)		400.1 kg (882 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00154 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.003 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 1825 Generator

Table 200

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	660.4 mm (26 inch)		673.1 mm (26.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	5 - 0.150x0.320		0.142x0.305
Mean Length Turn	2550.1 mm (100.4 inch)		-
Copper Weight	290.3 kg (640 lb)		435.4 kg (960 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00122 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.077 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-1827 Generator

Table 201

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	711.2 mm (28 inch)		723.9 mm (28.5 inch)
Slots	84		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	6 - 0.145x0.330		0.142x0.305
Mean Length Turn	2667.0 mm (105 inch)		-
Copper Weight	354.7 kg (782 lb)		458.1 kg (1010 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00103 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.170 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 1835 Generator

Table 202

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		381.0 mm (15 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.150x0.250		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	118.8 kg (262 lb)		166.6 kg (367.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.232 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 1837 Generator

Table 203

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		393.7 mm (15.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.150x0.250		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	118.8 kg (262 lb)		170.7 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 1839 Generator

Table 204

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		393.7 mm (15.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.150x0.250		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	118.8 kg (262 lb)		170.7 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-1841 Generator

Table 205

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		469.9 mm (18.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.150x0.250		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	118.8 kg (262 lb)		189.6 kg (418 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.401 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 1843 Generator

Table 206

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		469.9 mm (18.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.150x0.250		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	118.8 kg (262 lb)		189.6 kg (418 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.401 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144 - 1845 Generator

Table 207

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	10 - 0.119x0.169		#6 SQ
Mean Length Turn	1953.2 mm (76.9 inch)		-
Copper Weight	145.1 kg (320 lb)		203.6 kg (449 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00333 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-1847 Generator

Table 208

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	10 - 0.119x0.169		#6 SQ
Mean Length Turn	1953.2 mm (76.9 inch)		-
Copper Weight	145.1 kg (320 lb)		203.6 kg (449 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00333 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

144-1951 Generator

Table 209

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23 inch)		596.9 mm (23.5 inch)
Slots	96		-
Coil Throw	1 - 17		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	7 - 0.099x0.303		0.142x0.305
Mean Length Turn	2186.9 mm (86.1 inch)		-
Copper Weight	245.8 kg (542 lb)		400.1 kg (882 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00152 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.003 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

i01585822

Winding Data for 147-9437 Generator through 147-9497 Generator

SMCS Code: 4450

147 - 9437 Generator

Table 210

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		381.0 mm (15 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	40 - #13		#6 SQ
Mean Length Turn	1833.8 mm (72.2 inch)		-
Copper Weight	127.0 kg (280 lb)		166.6 kg (367.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00418 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.232 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

147 - 9439 Generator

Table 211

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		381.0 mm (15 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	40 - #13		#6 SQ
Mean Length Turn	1833.8 mm (72.2 inch)		-
Copper Weight	127.0 kg (280 lb)		166.6 kg (367.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00418 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.232 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

147-9441 Generator

Table 212

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		393.7 mm (15.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.150x0.250		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	118.8 kg (262 lb)		170.7 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 61

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

147-9443 Generator

Table 213

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		393.7 mm (15.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.150x0.250		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	118.8 kg (262 lb)		170.7 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 61

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

147-9449 Generator

Table 214

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20 inch)		520.7 mm (20.5 inch)
Slots	96		-
Coil Throw	1 - 19		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	27 - #13		#6 SQ
Mean Length Turn	2199.6 mm (86.6 inch)		-
Copper Weight	136.1 kg (300 lb)		203.6619 kg (449 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00223 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

147-9451 Generator

Table 215

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20 inch)		520.7 mm (20.5 inch)
Slots	96		-
Coil Throw	1 - 19		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	27 - #13		#6 SQ
Mean Length Turn	2199.6 mm (86.6 inch)		-
Copper Weight	136.1 kg (300 lb)		203.6619 kg (449 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00223 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

147-9453 Generator

Table 216

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22 inch)		571.5 mm (22.5 inch)
Slots	84		-
Coil Throw	1 - 19		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	32 - #13		#6 SQ
Mean Length Turn	2362.2 mm (93 inch)		-
Copper Weight	151.9527 kg (335 lb)		216.3 kg (477 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00195 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.660 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	48
Turns (Coils)	140	9	12
No. & Size Wire	1 - #15.5	1 - #16 1 - #16.5	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	515.6 mm (20.3 inch)	431.8 mm (17 inch)	208.2 mm (8.2 inch)
Copper Weight	6.0 kg (13.3 lb)	3.1 kg (6.9 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

147 - 9489 Generator

Table 217

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	469.9 mm (18.5 inch)		482.6 mm (19 inch)
Slots	84		-
Coil Throw	1 - 19		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	6 - 0.110x0.290		0.142x0.305
Mean Length Turn	2260.6 mm (89 inch)		-
Copper Weight	210.9 kg (465 lb)		349.2 kg (770 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00117 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.876 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

147-9493 Generator

Table 218

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		482.6 mm (19 inch)
Slots	84		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	5 - 0.145x0.330		0.142x0.305
Mean Length Turn	2169.1 mm (85.4 inch)		-
Copper Weight	251.7 kg (555 lb)		349.2 kg (770 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00113 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.876 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

147-9497 Generator

Table 219

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23 inch)		596.9 mm (23.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	10 - 0.148x0.194		0.142x0.305
Mean Length Turn	2377.4 mm (93.6 inch)		-
Copper Weight	288.0 kg (635 lb)		400.1 kg (882 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00080 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.003 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

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Winding Data for 149-2447 Generator through 149-2464 Generator

SMCS Code: 4450

149 - 2447 Generator

Table 220

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12 inch)		304.8 mm (12 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		180
No. & Wire Size	19 - #14		#6-1/2 RD
Mean Length Turn	1460.5 mm (57.5 inch)		-
Copper Weight	62.6 kg (138 lb)		83.6 kg (184.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00332 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.175 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149-2448 Generator

Table 221

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12 inch)		304.8 mm (12 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		180
No. & Wire Size	26 - #14		#6-1/2 RD
Mean Length Turn	1409.7 mm (55.5 inch)		-
Copper Weight	82.1 kg (181 lb)		83.6 kg (184.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00232 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.175 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149-2449 Generator

Table 222

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12 inch)		304.8 mm (12 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	2		-
Turns/Pole	-		180
No. & Wire Size	25 - #14		#6-1/2 RD
Mean Length Turn	1460.5 mm (57.5 inch)		-
Copper Weight	82.5 kg (182 lb)		83.6 kg (184.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00331 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.175 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149-2450 Generator

Table 223

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12 inch)		304.8 mm (12 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		180
No. & Wire Size	26 - #14		#6-1/2 RD
Mean Length Turn	1397.0 mm (55.0 inch)		-
Copper Weight	82.1 kg (181 lb)		83.6 kg (184.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00276 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.175 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149-2451 Generator

Table 224

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	335.3 mm (13.2 inch)		335.3 mm (13.2 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	1.8 (1-2-2-2-2)		-
Turns/Pole	-		180
No. & Wire Size	24 - #14		#6-1/2 RD
Mean Length Turn	1585.0 mm (62.4 inch)		-
Copper Weight	77.5 kg (170.8 lb)		87.5 kg (193 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00288 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.270 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149-2452 Generator

Table 225

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	335.3 mm (13.2 inch)		335.3 mm (13.2 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.6 (2-1-2-1-2)		-
Turns/Pole	-		180
No. & Wire Size	26 - #14		#6-1/2 RD
Mean Length Turn	1524.0 mm (60.0 inch)		-
Copper Weight	71.7 kg (158 lb)		87.5 kg (193 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00261 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.270 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149 - 2453 Generator

Table 226

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	414.0 mm (16.3 inch)		414.0 mm (16.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		193
No. & Wire Size	26 - #14		#6-1/2 RD
Mean Length Turn	1618.0 mm (63.7 inch)		-
Copper Weight	66.7 kg (147 lb)		106.6 kg (235 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00250 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.499 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149-2454 Generator

Table 227

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	414.0 mm (16.3 inch)		414.0 mm (16.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.2 (1-1-2-1-1)		-
Turns/Pole	-		193
No. & Wire Size	36 - #14		#6-1/2 RD
Mean Length Turn	1676.4 mm (66.0 inch)		-
Copper Weight	77.6 kg (171 lb)		106.6 kg (235 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00188 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.499 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149 - 2455 Generator

Table 228

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		431.8 mm (17.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		180
No. & Wire Size	32 - #14		#6-1/2 RD
Mean Length Turn	1701.8 mm (67.0 inch)		-
Copper Weight	87.1 kg (192 lb)		102.5 kg (225.9 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00221 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.500 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149 - 2456 Generator

Table 229

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		431.8 mm (17.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.2 (1-1-2-1-1)		-
Turns/Pole	-		180
No. & Wire Size	35 - #14		#6-1/2 RD
Mean Length Turn	1714.5 mm (67.5 inch)		-
Copper Weight	81.6 kg (180 lb)		102.5 kg (225.9 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00182 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.500 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149 - 2457 Generator

Table 230

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	457.2 mm (18.0 inch)		457.2 mm (18.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		193
No. & Wire Size	34 - #14		#6-1/2 RD
Mean Length Turn	1765.3 mm (69.5 inch)		-
Copper Weight	95.3 kg (210 lb)		113.9 kg (251 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00182 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.600 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149-2458 Generator

Table 231

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	457.2 mm (18.0 inch)		457.2 mm (18.0 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	40 - #14		#6-1/2 RD
Mean Length Turn	1828.8 mm (72.0 inch)		-
Copper Weight	82.6 kg (182 lb)		113.9 kg (251 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00152 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.600 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149 - 2459 Generator

Table 232

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22.0 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	39 - #14		#6-1/2 RD
Mean Length Turn	2026.9 mm (79.8 inch)		-
Copper Weight	89.4 kg (197 lb)		132.0 kg (291 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00177 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.855 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149 - 2460 Generator

Table 233

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22.0 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	40 - #14		#6-1/2 RD
Mean Length Turn	1849.1 mm (72.8 inch)		-
Copper Weight	83.7 kg (184.5 lb)		132.0 kg (291 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00151 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.855 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149-2461 Generator

Table 234

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	566.4 mm (22.3 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	40 - #14		#6-1/2 RD
Mean Length Turn	1983.7 mm (78.1 inch)		-
Copper Weight	93.9 kg (207 lb)		132.0 kg (291 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00149 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.855 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149-2462 Generator

Table 235

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	566.4 mm (22.3 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	50 - #14		#6-1/2 RD
Mean Length Turn	1920.2 mm (75.6 inch)		-
Copper Weight	108.4 kg (239 lb)		132.0 kg (291 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00485 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.855 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149 - 2463 Generator

Table 236

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23.0 inch)		584.2 mm (23.0 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	50 - #14		#6-1/2 RD
Mean Length Turn	2146.3 mm (84.5 inch)		-
Copper Weight	121.6 kg (268 lb)		135.2 kg (298 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00120 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.950 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

149-2464 Generator

Table 237

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23.0 inch)		584.2 mm (23.0 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	52 - #14		#6-1/2 RD
Mean Length Turn	1625.6 mm (64.0 inch)		-
Copper Weight	115.2 kg (254 lb)		135.2 kg (298 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00112 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.950 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	-	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	15 - 1/2	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	-
Line Leads	#14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

i01625300

Winding Data for 153-3081 Generator through 153-3098 Generator

SMCS Code: 4450

153-3081 Generator

Table 238

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12 inch)		304.8 mm (12 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		180
No. & Wire Size	19 - #14		#6-1/2 RD
Mean Length Turn	1460.5 mm (57.5 inch)		-
Copper Weight	62.6 kg (138 lb)		83.6 kg (184.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00332 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.175 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3082 Generator

Table 239

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12 inch)		304.8 mm (12 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		180
No. & Wire Size	26 - #14		#6-1/2 RD
Mean Length Turn	1409.7 mm (55.5 inch)		-
Copper Weight	82.1 kg (181 lb)		83.6 kg (184.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00232 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.175 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3083 Generator

Table 240

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12 inch)		304.8 mm (12 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	2		-
Turns/Pole	-		180
No. & Wire Size	25 - #14		#6-1/2 RD
Mean Length Turn	1460.5 mm (57.5 inch)		-
Copper Weight	82.5 kg (182 lb)		83.6 kg (184.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00331 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.175 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3084 Generator

Table 241

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12 inch)		304.8 mm (12 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		180
No. & Wire Size	26 - #14		#6-1/2 RD
Mean Length Turn	1397.0 mm (55.0 inch)		-
Copper Weight	82.1 kg (181 lb)		83.6 kg (184.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00276 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.175 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3085 Generator

Table 242

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	335.3 mm (13.2 inch)		335.3 mm (13.2 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	1.8 (1-2-2-2-2)		-
Turns/Pole	-		180
No. & Wire Size	24 - #14		#6-1/2 RD
Mean Length Turn	1585.0 mm (62.4 inch)		-
Copper Weight	77.5 kg (170.8 lb)		87.5 kg (193 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00288 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.270 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3086 Generator

Table 243

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	335.3 mm (13.2 inch)		335.3 mm (13.2 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.6 (2-1-2-1-2)		-
Turns/Pole	-		180
No. & Wire Size	26 - #14		#6-1/2 RD
Mean Length Turn	1524.0 mm (60.0 inch)		-
Copper Weight	71.7 kg (158 lb)		87.5 kg (193 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00261 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.270 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3087 Generator

Table 244

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	414.0 mm (16.3 inch)		414.0 mm (16.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		193
No. & Wire Size	26 - #14		#6-1/2 RD
Mean Length Turn	1618.0 mm (63.7 inch)		-
Copper Weight	66.7 kg (147 lb)		106.6 kg (235 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00250 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.499 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3088 Generator

Table 245

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	414.0 mm (16.3 inch)		414.0 mm (16.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.2 (1-1-2-1-1)		-
Turns/Pole	-		193
No. & Wire Size	36 - #14		#6-1/2 RD
Mean Length Turn	1676.4 mm (66.0 inch)		-
Copper Weight	77.6 kg (171 lb)		106.6 kg (235 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00188 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.499 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3089 Generator

Table 246

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		431.8 mm (17.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		180
No. & Wire Size	32 - #14		#6-1/2 RD
Mean Length Turn	1701.8 mm (67.0 inch)		-
Copper Weight	87.1 kg (192 lb)		102.5 kg (225.9 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00221 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.500 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3090 Generator

Table 247

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		431.8 mm (17.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.2 (1-1-2-1-1)		-
Turns/Pole	-		180
No. & Wire Size	35 - #14		#6-1/2 RD
Mean Length Turn	1714.5 mm (67.5 inch)		-
Copper Weight	81.6 kg (180 lb)		102.5 kg (225.9 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00182 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.500 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3091 Generator

Table 248

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	457.2 mm (18.0 inch)		457.2 mm (18.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		193
No. & Wire Size	34 - #14		#6-1/2 RD
Mean Length Turn	1765.3 mm (69.5 inch)		-
Copper Weight	95.3 kg (210 lb)		113.9 kg (251 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00182 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.600 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 63

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3092 Generator

Table 249

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	457.2 mm (18.0 inch)		457.2 mm (18.0 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	40 - #14		#6-1/2 RD
Mean Length Turn	1828.8 mm (72.0 inch)		-
Copper Weight	82.6 kg (182 lb)		113.9 kg (251 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00152 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.600 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3093 Generator

Table 250

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22.0 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	39 - #14		#6-1/2 RD
Mean Length Turn	2026.9 mm (79.8 inch)		-
Copper Weight	89.4 kg (197 lb)		132.0 kg (291 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00177 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.855 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3094 Generator

Table 251

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22.0 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	40 - #14		#6-1/2 RD
Mean Length Turn	1849.1 mm (72.8 inch)		-
Copper Weight	83.7 kg (184.5 lb)		132.0 kg (291 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00151 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.855 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3095 Generator

Table 252

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	566.4 mm (22.3 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	40 - #14		#6-1/2 RD
Mean Length Turn	1983.7 mm (78.1 inch)		-
Copper Weight	93.9 kg (207 lb)		132.0 kg (291 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00149 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.855 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3096 Generator

Table 253

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	566.4 mm (22.3 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	50 - #14		#6-1/2 RD
Mean Length Turn	1920.2 mm (75.6 inch)		-
Copper Weight	108.4 kg (239 lb)		132.0 kg (291 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00485 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.855 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3097 Generator

Table 254

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23.0 inch)		584.2 mm (23.0 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	50 - #14		#6-1/2 RD
Mean Length Turn	2146.3 mm (84.5 inch)		-
Copper Weight	121.6 kg (268 lb)		135.2 kg (298 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00120 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.950 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

153-3098 Generator

Table 255

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23.0 inch)		584.2 mm (23.0 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	1		-
Turns/Pole	-		193
No. & Wire Size	52 - #14		#6-1/2 RD
Mean Length Turn	1625.6 mm (64.0 inch)		-
Copper Weight	115.2 kg (254 lb)		135.2 kg (298 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		-
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00112 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.950 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	-	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	15 - 1/2	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	-	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	#14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

i01625456

Winding Data for 164-0975 Generator through 164-0987 Generator

SMCS Code: 4450

164 - 0975 Generator

Table 256

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	84		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		138
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1701.8 mm (67.0 inch)		-
Copper Weight	48.5 kg (107 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye / 4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00119 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 64

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

164 - 0976 Generator

Table 257

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	3		-
Turns/Pole	-		138
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1600.2 mm (63.0 inch)		-
Copper Weight	51.7 kg (114 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00795 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 65

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

164-0977 Generator

Table 258

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		138
No. & Wire Size	15 - #14		#8 SQ
Mean Length Turn	1618.0 mm (63.7 inch)		-
Copper Weight	54.7 kg (120.5 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye / 4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00455 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 66

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

164-0979 Generator

Table 259

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	84		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		138
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1701.8 mm (67.0 inch)		-
Copper Weight	48.5 kg (107 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye / 4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00119 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 64

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

164-0980 Generator

Table 260

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	3		-
Turns/Pole	-		138
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1600.2 mm (63.0 inch)		-
Copper Weight	51.7 kg (114 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00795 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 65

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

164-0981 Generator

Table 261

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		138
No. & Wire Size	15 - #14		#8 SQ
Mean Length Turn	1618.0 mm (63.7 inch)		-
Copper Weight	54.7 kg (120.5 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye / 4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00455 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 66

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

164-0982 Generator

Table 262

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	84		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		138
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1701.8 mm (67.0 inch)		-
Copper Weight	48.5 kg (107 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye / 4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00119 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 64

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

164 - 0983 Generator

Table 263

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	3		-
Turns/Pole	-		138
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1600.2 mm (63.0 inch)		-
Copper Weight	51.7 kg (114 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00795 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 65

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

164-0984 Generator

Table 264

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		138
No. & Wire Size	15 - #14		#8 SQ
Mean Length Turn	1618.0 mm (63.7 inch)		-
Copper Weight	54.7 kg (120.5 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye / 4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00455 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 66

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

164-0985 Generator

Table 265

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	84		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		138
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1701.8 mm (67.0 inch)		-
Copper Weight	48.5 kg (107 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye / 4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00119 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 64

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

164-0986 Generator

Table 266

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	3		-
Turns/Pole	-		138
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1600.2 mm (63.0 inch)		-
Copper Weight	51.7 kg (114 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00795 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 65

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

164-0987 Generator

Table 267

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		138
No. & Wire Size	15 - #14		#8 SQ
Mean Length Turn	1618.0 mm (63.7 inch)		-
Copper Weight	54.7 kg (120.5 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye / 4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00455 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 66

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

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Winding Data for 166-2651 Generator through 166-2689 Generator

SMCS Code: 4450

166-2651 Generator

Table 268

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		381.0 mm (15 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	27 - #13		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	95.2 kg (210 lb)		166.6 kg (367.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00623 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.232 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2653 Generator

Table 269

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		381.0 mm (15 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	27 - #13		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	95.2 kg (210 lb)		166.6 kg (367.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00623 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.232 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2655 Generator

Table 270

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		381.0 mm (15 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.150x0.250		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	118.8 kg (262 lb)		166.6 kg (367.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.232 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2657 Generator

Table 271

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		381.0 mm (15 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	40 - #13		#6 SQ
Mean Length Turn	1833.8 mm (72.2 inch)		-
Copper Weight	127.0 kg (280 lb)		166.6 kg (367.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00418 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.232 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2659 Generator

Table 272

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		381.0 mm (15 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	40 - #13		#6 SQ
Mean Length Turn	1833.8 mm (72.2 inch)		-
Copper Weight	127.0 kg (280 lb)		166.6 kg (367.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00418 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.232 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2661 Generator

Table 273

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		393.7 mm (15.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	40 - #13		#6 SQ
Mean Length Turn	1833.8 mm (72.2 inch)		-
Copper Weight	127.0 kg (280 lb)		170.7 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00418 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2663 Generator

Table 274

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		393.7 mm (15.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	40 - #13		#6 SQ
Mean Length Turn	1833.8 mm (72.2 inch)		-
Copper Weight	127.0 kg (280 lb)		170.7 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00418 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2665 Generator

Table 275

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		393.7 mm (15.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.150x0.250		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	118.8 kg (262 lb)		170.7 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2667 Generator

Table 276

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		393.7 mm (15.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.150x0.250		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	118.8 kg (262 lb)		170.7 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 61

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2669 Generator

Table 277

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		393.7 mm (15.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.150x0.250		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	118.8 kg (262 lb)		170.7 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 61

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2671 Generator

Table 278

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	450.8 mm (17.75 inch)		469.9 mm (18.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	37 - #13		#6 SQ
Mean Length Turn	1925.3 mm (75.8 inch)		-
Copper Weight	122.4 kg (270 lb)		189.6 kg (418 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00141 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.401 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2673 Generator

Table 279

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	450.8 mm (17.75 inch)		469.9 mm (18.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	37 - #13		#6 SQ
Mean Length Turn	1925.3 mm (75.8 inch)		-
Copper Weight	122.4 kg (270 lb)		189.6 kg (418 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00141 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.401 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2675 Generator

Table 280

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		469.9 mm (18.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.150x0.250		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	118.8 kg (262 lb)		189.6 kg (418 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.401 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2677 Generator

Table 281

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		469.9 mm (18.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.150x0.250		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	118.8 kg (262 lb)		189.6 kg (418 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.401 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2679 Generator

Table 282

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	40 - #13		#6 SQ
Mean Length Turn	1953.2 mm (76.9 inch)		-
Copper Weight	113.4 kg (250 lb)		203.6 kg (449 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00119 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2681 Generator

Table 283

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	40 - #13		#6 SQ
Mean Length Turn	1953.2 mm (76.9 inch)		-
Copper Weight	113.4 kg (250 lb)		203.6 kg (449 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00119 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2683 Generator

Table 284

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	10 - 0.119x0.169		#6 SQ
Mean Length Turn	1953.2 mm (76.9 inch)		-
Copper Weight	145.1 kg (320 lb)		203.6 kg (449 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00333 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2685 Generator

Table 285

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	10 - 0.119x0.169		#6 SQ
Mean Length Turn	1953.2 mm (76.9 inch)		-
Copper Weight	145.1 kg (320 lb)		203.6 kg (449 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00333 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2687 Generator

Table 286

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20 inch)		520.7 mm (20.5 inch)
Slots	96		-
Coil Throw	1 - 19		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	27 - #13		#6 SQ
Mean Length Turn	2199.6 mm (86.6 inch)		-
Copper Weight	136.1 kg (300 lb)		203.6619 kg (449 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00223 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2689 Generator

Table 287

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20 inch)		520.7 mm (20.5 inch)
Slots	96		-
Coil Throw	1 - 19		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	27 - #13		#6 SQ
Mean Length Turn	2199.6 mm (86.6 inch)		-
Copper Weight	136.1 kg (300 lb)		203.6619 kg (449 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00223 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

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Winding Data for 166-2691 Generator through 166-7187 Generator

SMCS Code: 4450

166 - 2691 Generator

Table 288

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22 inch)		571.5 mm (22.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	53 - #13		#6 SQ
Mean Length Turn	2128.5 mm (83.8 inch)		-
Copper Weight	161.0 kg (355 lb)		216.3 kg (477 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00319 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.660 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	48
Turns (Coils)	140	9	12
No. & Size Wire	1 - #15.5	1 - #16 1 - #16.5	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	515.6 mm (20.3 inch)	431.8 mm (17 inch)	208.2 mm (8.2 inch)
Copper Weight	6.0 kg (13.3 lb)	3.1 kg (6.9 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		

(continued)

(Table 288, contd)

MAIN STATOR AND ROTOR WINDING DATA			
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 61

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2693 Generator

Table 289

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22 inch)		571.5 mm (22.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	12 - 0.112x0.215		#6 SQ
Mean Length Turn	1963.4 mm (77.3 inch)		-
Copper Weight	217.7 kg (480 lb)		216.3 kg (477 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00250 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.660 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	48
Turns (Coils)	140	9	12
No. & Size Wire	1 - #15.5	1 - #16 1 - #16.5	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	515.6 mm (20.3 inch)	431.8 mm (17 inch)	208.2 mm (8.2 inch)
Copper Weight	6.0 kg (13.3 lb)	3.1 kg (6.9 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2695 Generator

Table 290

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22 inch)		571.5 mm (22.5 inch)
Slots	84		-
Coil Throw	1 - 19		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	32 - #13		#6 SQ
Mean Length Turn	2362.2 mm (93 inch)		-
Copper Weight	151.9527 kg (335 lb)		216.3 kg (477 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00195 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.660 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	48
Turns (Coils)	140	9	12
No. & Size Wire	1 - #15.5	1 - #16 1 - #16.5	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	515.6 mm (20.3 inch)	431.8 mm (17 inch)	208.2 mm (8.2 inch)
Copper Weight	6.0 kg (13.3 lb)	3.1 kg (6.9 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2697 Generator

Table 291

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		609.6 mm (24 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	62 - #13		#6 SQ
Mean Length Turn	2301.2 mm (90.6 inch)		-
Copper Weight	204.1 kg (450 lb)		225.4 kg (497 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00292 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.666 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	48
Turns (Coils)	140	9	12
No. & Size Wire	1 - #15.5	1 - #16 1 - #16.5	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	515.6 mm (20.3 inch)	431.8 mm (17 inch)	208.2 mm (8.2 inch)
Copper Weight	6.0 kg (13.3 lb)	3.1 kg (6.9 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 61⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2699 Generator

Table 292

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		609.6 mm (24 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	10 - 0.150x0.225		#6 SQ
Mean Length Turn	2301.2 mm (90.6 inch)		-
Copper Weight	263.0 kg (582 lb)		225.4 kg (497 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00219 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.666 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	6	36	48
Turns (Coils)	140	9	12
No. & Size Wire	1 - #15.5	1 - #16 1 - #16.5	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	515.6 mm (20.3 inch)	431.8 mm (17 inch)	208.2 mm (8.2 inch)
Copper Weight	6.0 kg (13.3 lb)	3.1 kg (6.9 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 61

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2701 Generator

Table 293

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	469.9 mm (18.5 inch)		482.6 mm (19 inch)
Slots	84		-
Coil Throw	1 - 19		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	6 - 0.110x0.290		0.142x0.305
Mean Length Turn	2260.6 mm (89 inch)		-
Copper Weight	210.9 kg (465 lb)		349.2 kg (770 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00117 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.876 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2703 Generator

Table 294

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		533.4 mm (21 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	80 - #13		0.142x0.305
Mean Length Turn	2118.3 mm (83.4 inch)		-
Copper Weight	241.7 kg (533 lb)		371.9 kg (820 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00231 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9324 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 61

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2705 Generator

Table 295

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		533.4 mm (21 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	12 - 0.139x0.255		0.142x0.305
Mean Length Turn	2118.3 mm (83.4 inch)		-
Copper Weight	294.8 kg (650 lb)		371.9 kg (820 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00187 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9324 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 61

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2707 Generator

Table 296

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		482.6 mm (19 inch)
Slots	84		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	5 - 0.145x0.330		0.142x0.305
Mean Length Turn	2169.1 mm (85.4 inch)		-
Copper Weight	251.7 kg (555 lb)		349.2 kg (770 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00113 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.876 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166 - 2709 Generator

Table 297

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23 inch)		596.9 mm (23.5 inch)
Slots	96		-
Coil Throw	1 - 20		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	41 - #13		0.142x0.305
Mean Length Turn	2379.4 mm (93.68 inch)		-
Copper Weight	221.3 kg (488 lb)		400.1 kg (882 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00190 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.003 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2711 Generator

Table 298

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23 inch)		596.9 mm (23.5 inch)
Slots	96		-
Coil Throw	1 - 19		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	7 - 0.099x0.303		0.142x0.305
Mean Length Turn	2580.6 mm (101.6 inch)		-
Copper Weight	297.1 kg (655 lb)		400.1 kg (882 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00154 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.003 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2713 Generator

Table 299

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23 inch)		596.9 mm (23.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	10 - 0.148x0.194		0.142x0.305
Mean Length Turn	2377.4 mm (93.6 inch)		-
Copper Weight	288.0 kg (635 lb)		400.1 kg (882 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00080 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.003 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2715 Generator

Table 300

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	660.4 mm (26 inch)		673.1 mm (26.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	58 - #14		0.142x0.305
Mean Length Turn	2550.1 mm (100.4 inch)		-
Copper Weight	235.8 kg (520 lb)		435.4 kg (960 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00147 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.077 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2717 Generator

Table 301

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	660.4 mm (26 inch)		673.1 mm (26.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	5 - 0.150x0.320		0.142x0.305
Mean Length Turn	2550.1 mm (100.4 inch)		-
Copper Weight	290.3 kg (640 lb)		435.4 kg (960 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00122 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.077 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-2719 Generator

Table 302

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	711.2 mm (28 inch)		723.9 mm (28.5 inch)
Slots	84		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216.5
No. & Wire Size	6 - 0.145x0.330		0.142x0.305
Mean Length Turn	2667.0 mm (105 inch)		-
Copper Weight	354.7 kg (782 lb)		458.1 kg (1010 lb)
Inside Connection ⁽¹⁾	4 Parallel Wye		4 in Series
Line Leads (No. & Size)	48 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00103 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.170 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	25.4 mm (1 inch)
Coils/Group	1	2	1
Slots (Coils)	8	48	48
Turns (Coils)	160	7	12
No. & Size Wire	1 - #14	3 - #15	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	330.2 mm (13 inch)	368.3 mm (14.5 inch)	208.2 mm (8.2 inch)
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel	Series Wye
Line Leads	2 - #14	6 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

166-7187 Generator

Table 303

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	368.3 mm (14.5 inch)		393.7 mm (15.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	4 - 0.150x0.250		#6 SQ
Mean Length Turn	1752.6 mm (69 inch)		-
Copper Weight	118.8 kg (262 lb)		170.7 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	48
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.2 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (3.95 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	Series Wye
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 49

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

i01625816

Winding Data for 167-1351 Generator through 167-1354 Generator

SMCS Code: 4450

167 - 1351 Generator

Table 304

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		138
No. & Wire Size	15 - #14		#8 SQ
Mean Length Turn	1618.0 mm (63.7 inch)		-
Copper Weight	54.7 kg (120.5 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye / 4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00455 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 64

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

167-1352 Generator

Table 305

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	84		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		138
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1701.8 mm (67.0 inch)		-
Copper Weight	48.5 kg (107 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye / 4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00119 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 64

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

167 - 1353 Generator

Table 306

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		138
No. & Wire Size	15 - #14		#8 SQ
Mean Length Turn	1618.0 mm (63.7 inch)		-
Copper Weight	54.7 kg (120.5 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye / 4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00455 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 64

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

167 - 1354 Generator

Table 307

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	84		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		138
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1701.8 mm (67.0 inch)		-
Copper Weight	48.5 kg (107 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye / 4 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00119 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 64

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

i01625837

Winding Data for 194-6560 Generator through 194-6563 Generator

SMCS Code: 4450

194 - 6560 Generator

Table 308

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	2		-
Turns/Pole	-		138
No. & Wire Size	19 - #14		#8 SQ
Mean Length Turn	1605.3 mm (63.2 inch)		-
Copper Weight	54.9 kg (121 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00285 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 64

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

194-6561 Generator

Table 309

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	2		-
Turns/Pole	-		138
No. & Wire Size	19 - #14		#8 SQ
Mean Length Turn	1605.3 mm (63.2 inch)		-
Copper Weight	54.9 kg (121 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00285 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 64

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

194-6562 Generator

Table 310

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	2		-
Turns/Pole	-		138
No. & Wire Size	19 - #14		#8 SQ
Mean Length Turn	1605.3 mm (63.2 inch)		-
Copper Weight	54.9 kg (121 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00285 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 64

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

194 - 6563 Generator

Table 311

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	527.1 mm (20.75 inch)		527.1 mm (20.75 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	2		-
Turns/Pole	-		138
No. & Wire Size	19 - #14		#8 SQ
Mean Length Turn	1605.3 mm (63.2 inch)		-
Copper Weight	54.9 kg (121 lb)		73.0 kg (161 lb)
Inside Connection ⁽¹⁾	2 Parallel Wye		Series
Line Leads (No. & Size)	-		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00285 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.430 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	-	2	-
Slots (Coils)	8	48	-
Turns (Coils)	178	12	-
No. & Size Wire	1 - #14.5	2 - #17.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	304.8 mm (12.0 inch)	1066.8 mm (42.0 inch)	-
Copper Weight	10.3 kg (22.6 lb)	3.6 kg (7.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 64

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

i01626544

Winding Data for 203-5749 Generator through 203-5757 Generator

SMCS Code: 4450

203 - 5749 Generator

Table 312

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	444.5 mm (17.5 inch)		457.2 mm (18.0 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	5		-
Turns/Pole	-		147.5
No. & Wire Size	2 - 0.112x0.215		0.144x0.288
Mean Length Turn	1790.7 mm (70.5 inch)		1371.6 mm (54.0 inch)
Copper Weight	174.2 kg (384 lb)		294.4 kg (649 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		Series
Line Leads (No. & Size)	36 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00801 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.814 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	160 Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	-	-	1
Slots (Coils)	8	48	48
Turns (Coils)	320	8	17
No. & Size Wire	2 - #18.5	3 - #16	2 - #17
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	419.1 mm (16.5 inch)	221.0 mm (8.7 inch)
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14 lb)	1.8 kg (3.97 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Series Star
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 06

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

203-5751 Generator

Table 313

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23.0 inch)		596.9 mm (23.5 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	4		-
Turns/Pole	-		147.5
No. & Wire Size	2 - 0.145x0.215		0.144x0.288
Mean Length Turn	2062.5 mm (81.2 inch)		1648.5 mm (64.9 inch)
Copper Weight	210.5 kg (464 lb)		354.3 kg (781 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		Series
Line Leads (No. & Size)	36 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00550 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.980 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	160 Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	-	-	1
Slots (Coils)	8	48	48
Turns (Coils)	320	8	17
No. & Size Wire	2 - #18.5	3 - #16	2 - #17
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	419.1 mm (16.5 inch)	221.0 mm (8.7 inch)
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14 lb)	1.8 kg (3.97 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Series Star
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 06

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

203-5753 Generator

Table 314

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	736.6 mm (29.0 inch)		749.3 mm (29.5 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		147.5
No. & Wire Size	1 - 0.160x0.340		0.144x0.288
Mean Length Turn	2194.6 mm (86.4 inch)		1955.8 mm (77.0 inch)
Copper Weight	145.6 kg (321 lb)		419.6 kg (925 lb)
Inside Connection ⁽¹⁾	6 Parallel Wye		Series
Line Leads (No. & Size)	36 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00440 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.170 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	160 Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	-	-	1
Slots (Coils)	8	48	48
Turns (Coils)	320	8	17
No. & Size Wire	2 - #18.5	3 - #16	2 - #17
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	419.1 mm (16.5 inch)	221.0 mm (8.7 inch)
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14 lb)	1.8 kg (3.97 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Series Star
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 06

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

203-5755 Generator

Table 315

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	838.2 mm (33.0 inch)		850.9 mm (33.5 inch)
Slots	90		-
Coil Throw	1 - 12		-
Turns/Coil	2		-
Turns/Pole	-		163.5
No. & Wire Size	2 - 0.150x0.320		0.144x0.288
Mean Length Turn	2654.3 mm (104.5 inch)		2156.5 mm (84.9 inch)
Copper Weight	251.7 kg (555 lb)		513.5 kg (1132 lb)
Inside Connection ⁽¹⁾	6 Parallel Wye		Series
Line Leads (No. & Size)	36 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00293 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.422 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	160 Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	-	-	1
Slots (Coils)	8	48	48
Turns (Coils)	320	8	17
No. & Size Wire	2 - #18.5	3 - #16	2 - #17
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	419.1 mm (16.5 inch)	221.0 mm (8.7 inch)
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14 lb)	1.8 kg (3.97 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Series Star
Line Leads	2 - #14	6 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 06

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

203-5757 Generator

Table 316

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	914.4 mm (36.0 inch)		927.1 mm (36.5 inch)
Slots	90		-
Coil Throw	1 - 12		-
Turns/Coil	2		-
Turns/Pole	-		163.5
No. & Wire Size	2 - 0.136x0.272		0.144x0.288
Mean Length Turn	2560.3 mm (100.8 inch)		2311.4 mm (91.0 inch)
Copper Weight	191.4 kg (422 lb)		549.8 kg (1212 lb)
Inside Connection ⁽¹⁾	6 Parallel Wye		Series
Line Leads (No. & Size)	36 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00387 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.522 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	160 Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	31.8 mm (1.25 inch)
Coils/Group	-	-	1
Slots (Coils)	8	48	48
Turns (Coils)	320	8	17
No. & Size Wire	2 - #18.5	3 - #16	2 - #17
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	419.1 mm (16.5 inch)	221.0 mm (8.7 inch)
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14 lb)	1.8 kg (3.97 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Wye	Series Star
Line Leads	2 - #14	6 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 06

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

i01349110

Winding Data for 4P-2236 Generator through 4P-9907 Generator

SMCS Code: 4450

4P-2236 Generator

Table 317

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	424.2 mm (16.7 inch)		431.8 mm (17.0 inch)
Slots	66		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		165
No. & Wire Size	25 - #13		#7 SQ
Mean Length Turn	1747.5 mm (68.8 inch)		-
Copper Weight	76.7 kg (169.0 lb)		102.0 kg (224.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00588 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.25 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	125	6	-
No. & Size Wire	1 - #15	2 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	1 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

4P-2238 Generator

Table 318

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	342.9 mm (13.5 inch)		355.6 mm (14.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	3		-
Turns/Pole	-		216
No. & Wire Size	19 - #14		#6 SQ
Mean Length Turn	1656.1 mm (65.2 inch)		-
Copper Weight	111.1 kg (245.0 lb)		161.0 kg (355.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00628 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.2 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	125	6	-
No. & Size Wire	1 - #15	2 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

4P-2240 Generator

Table 319

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	482.6 mm (19.0 inch)		495.3 mm (19.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	34 - #13		#6 SQ
Mean Length Turn	1981.2 mm (78.0 inch)		-
Copper Weight	96.2 kg (212.0 lb)		196.9 kg (434.0 lb)
Inside Connection ⁽¹⁾	4 / 2 Parallel Star		4 in Series
Line Leads (No. & Size)	40 - #14		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.000999 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.476 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	125	6	-
No. & Size Wire	1 - #15	2 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 28

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

4P-2242 Generator

Table 320

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	23 - #13		#6 SQ
Mean Length Turn	1912.6 mm (75.3 inch)		-
Copper Weight	133.4 kg (294.0 lb)		203.2 kg (448.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.003325 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	125	6	-
No. & Size Wire	1 - #15	2 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

4P-2246 Generator

Table 321

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		614.7 mm (24.2 inch)
Slots	72		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		174
No. & Wire Size	54 - #14		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2438.4 mm (96.0 inch)		-
Copper Weight	178.7 kg (394.0 lb)		298.9 kg (659.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00139 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.863 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

4P-3015 Generator

Table 322

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		614.7 mm (24.2 inch)
Slots	72		-
Coil Throw	1 - 13		-
Turns/Coil	3		-
Turns/Pole	-		174
No. & Wire Size	2 - #5 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2347.0 mm (92.4 inch)		-
Copper Weight	204.1 kg (450.0 lb)		298.9 kg (659.0 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.147 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.863 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

4P -4533 Generator

Table 323

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	330.2 mm (13.0 inch)		342.9 mm (13.5 inch)
Slots	72		-
Coil Throw	1 - 13		-
Turns/Coil	3		-
Turns/Pole	-		216
No. & Wire Size	2 - 4.2 mm (0.165 inch)×4.2 mm (0.165 inch)		#6 SQ
Mean Length Turn	1605.3 mm (63.2 inch)		-
Copper Weight	111.5 kg (245.8 lb)		157.8 kg (348.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00764 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.166 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

4P-4541 Generator

Table 324

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	355.6 mm (14.0 inch)		368.3 mm (14.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	3		-
Turns/Pole	-		216
No. & Wire Size	4 - 2.3 mm (0.091 inch)×5.5 mm (0.215 inch)		#6 SQ
Mean Length Turn	1727.2 mm (68.0 inch)		-
Copper Weight	142.4 kg (314.0 lb)		164.2 kg (362.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00541 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.214 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

4P - 4543 Generator

Table 325

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	381.0 mm (15.0 inch)		393.7 mm (15.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	6 - 2.3 mm (0.091 inch)×0.3 mm (0.0137 inch)		#6 SQ
Mean Length Turn	1935.5 mm (76.2 inch)		-
Copper Weight	132.9 kg (293.0 lb)		170.8 kg (376.5 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00544 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

4P - 4545 Generator

Table 326

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		444.5 mm (17.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	4 - #7 1/2 SQ		#6 SQ
Mean Length Turn	1938.0 mm (76.3 inch)		-
Copper Weight	119.1 kg (262.5 lb)		183.7 kg (405.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00523 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.380 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	104	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

4P-4551 Generator

Table 327

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	47.9 kg (105.7 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0269 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #6	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

4P - 4565 Generator

Table 328

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	685.8 mm (27.0 inch)		698.5 mm (27.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	20 - #14 SQ		#6 SQ
Mean Length Turn	2331.7 mm (91.8 inch)		-
Copper Weight	126.6 kg (279.0 lb)		249.0 kg (549.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00638 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.841 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

4P-4567 Generator

Table 329

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	6 - 2.5 mm (0.098 inch)×4.3 mm (0.168 inch)		#6 SQ
Mean Length Turn	2057.4 mm (81.0 inch)		-
Copper Weight	143.8 kg (317.1 lb)		203.7 kg (449.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00337 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

4P - 4569 Generator

Table 330

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22.0 inch)		571.5 mm (22.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	4 - 3.7 mm (0.145 inch)×5.5 mm (0.215 inch)		#6 SQ
Mean Length Turn	2047.2 mm (80.6 inch)		-
Copper Weight	180.7 kg (398.3 lb)		216.4 kg (477.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00272 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.600 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	9	-
No. & Size Wire	1 - #15.5	1 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	515.6 mm (20.3 inch)	431.8 mm (17.0 inch)	-
Copper Weight	6.0 kg (13.3 lb)	3.2 kg (7.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

4P-4571 Generator

Table 331

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	660.4 mm (26.0 inch)		673.1 mm (26.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	2		-
Turns/Pole	-		174
No. & Wire Size	4 - 3.4 mm (0.134 inch)×6.1 mm (0.241 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2430.8 mm (95.7 inch)		-
Copper Weight	218.5 kg (481.8 lb)		320.1 kg (705.6 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00298 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

4P-4573 Generator

Table 332

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		439.4 mm (17.3 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	2		-
Turns/Pole	-		225.5
No. & Wire Size	4 - 4.0 mm (0.158 inch)×4.3 mm (0.169 inch)		3.7 mm (0.145 inch)×7.7 mm (0.302 inch)
Mean Length Turn	2087.9 mm (82.2 inch)		-
Copper Weight	160.0 kg (352.7 lb)		327.6 kg (722.3 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00318 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.849 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

4P -4575 Generator

Table 333

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		508.0 mm (20.0 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		225.5
No. & Wire Size	6 - 3.5 mm (0.137 inch)×6.2 mm (0.245 inch)		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	2126.0 mm (83.7 inch)		-
Copper Weight	292.6 kg (645.0 lb)		374.7 kg (826.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00169 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.941 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

4P-4577 Generator

Table 334

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	546.1 mm (21.5 inch)		558.8 mm (22.0 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		225.5
No. & Wire Size	6 - 3.5 mm (0.137 inch)×6.2 mm (0.245 inch)		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	2225.0 mm (87.6 inch)		-
Copper Weight	307.6 kg (678.0 lb)		386.0 kg (851.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00181 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.0 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

4P -4579 Generator

Table 335

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	622.3 mm (24.5 inch)		635.0 mm (25.0 inch)
Slots	84		-
Coil Throw	1 - 18		-
Turns/Coil	1		-
Turns/Pole	-		225.5
No. & Wire Size	10 - #7 1/2 SQ		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	2687.3 mm (105.8 inch)		-
Copper Weight	236.2 kg (520.8 lb)		416.8 kg (919.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00157 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.08 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

4P-4581 Generator

Table 336

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	355.6 mm (14.0 inch)		368.3 mm (14.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	3		-
Turns/Pole	-		216
No. & Wire Size	13 - #13		#6 SQ
Mean Length Turn	1739.9 mm (68.5 inch)		-
Copper Weight	116.1 kg (256.0 lb)		164.2 kg (362.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00826 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.214 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

4P-4583 Generator

Table 337

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	381.0 mm (15.0 inch)		393.7 mm (15.5 inch)
Slots	72		-
Coil Throw	1 - 13		-
Turns/Coil	3		-
Turns/Pole	-		216
No. & Wire Size	16 - #14		#6 SQ
Mean Length Turn	1719.6 mm (67.7 inch)		-
Copper Weight	112.0 kg (247.0 lb)		170.8 kg (376.5 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00836 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

4P - 4585 Generator

Table 338

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2.6		-
Turns/Pole	-		216
No. & Wire Size	20 - #13		#6 SQ
Mean Length Turn	2159.0 mm (85.0 inch)		-
Copper Weight	160.1 kg (353.0 lb)		203.7 kg (449.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00521 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

4P-4587 Generator

Table 339

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		439.4 mm (17.3 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	3		-
Turns/Pole	-		225.5
No. & Wire Size	4 - 3.3 mm (0.129 inch)×5.1 mm (0.202 inch)		#6 SQ
Mean Length Turn	1897.4 mm (74.7 inch)		-
Copper Weight	209.7 kg (462.4 lb)		327.6 kg (722.3 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00394 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.849 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

4P -4589 Generator

Table 340

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		508.0 mm (20.0 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	2		-
Turns/Pole	-		225.5
No. & Wire Size	6 - 3.3 mm (0.129 inch)×5.0 mm (0.195 inch)		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	2326.6 mm (91.6 inch)		-
Copper Weight	285.3 kg (629.0 lb)		374.7 kg (826.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00267 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.941 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

4P - 4596 Generator

Table 341

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	571.5 mm (22.5 inch)		584.2 mm (23.0 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		225.5
No. & Wire Size	4 - 3.7 mm (0.145 inch)×5.5 mm (0.215 inch)		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	2319.0 mm (91.3 inch)		-
Copper Weight	205.3 kg (452.6 lb)		393.7 kg (868.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00267 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.02 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

4P - 4598 Generator

Table 342

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	622.3 mm (24.5 inch)		635.0 mm (25.0 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		225.5
No. & Wire Size	6 - 3.3 mm (0.129 inch)×5.1 mm (0.202 inch)		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	2303.8 mm (90.7 inch)		-
Copper Weight	253.2 kg (558.2 lb)		416.8 kg (919.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00213 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.08 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

4P - 4600 Generator

Table 343

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	723.9 mm (28.5 inch)		736.6 mm (29.0 inch)
Slots	96		-
Coil Throw	1 - 18		-
Turns/Coil	1		-
Turns/Pole	-		225.5
No. & Wire Size	10 - #7 1/2 SQ		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	3086.1 mm (121.5 inch)		-
Copper Weight	305.0 kg (672.5 lb)		462.7 kg (1020.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00195 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.199 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

4P-7270 Generator

Table 344

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23.0 inch)		596.9 mm (23.5 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	4		-
Turns/Pole	-		147.5
No. & Wire Size	2 - 3.7 mm (0.145 inch)×5.5 mm (0.215 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2062.5 mm (81.2 inch)		-
Copper Weight	211.5 kg (466.2 lb)		49.1 kg (108.2 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		6 in Series
Line Leads (No. & Size)	36 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0055 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9625 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	320	8	-
No. & Size Wire	2 - #18 1/2	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	-	436.9 mm (17.2 inch)	-
Copper Weight	14.8 kg (32.6 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series/Parallel	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 06

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram F

4P-7272 Generator

Table 345

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	444.5 mm (17.5 inch)		457.2 mm (18.0 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	5		-
Turns/Pole	-		147.5
No. & Wire Size	2 - 2.8 mm (0.112 inch)×5.5 mm (0.215 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	1783.1 mm (70.2 inch)		-
Copper Weight	176.5 kg (389.2 lb)		49.1 kg (108.2 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		6 in Series
Line Leads (No. & Size)	36 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00714 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8139 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	320	8	-
No. & Size Wire	2 - #18 1/2	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	-	436.9 mm (17.2 inch)	-
Copper Weight	14.8 kg (32.6 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series/Parallel	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 06⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

4P - 7698 Generator

Table 346

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4.5 (5-4-5-4)		-
Turns/Pole	-		130
No. & Wire Size	8 - #14		#8 SQ
Mean Length Turn	1140.5 mm (44.9 inch)		-
Copper Weight	37.2 kg (82.0 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0470 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

4P - 9688 Generator

Table 347

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (3-2-2-2)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14 and 5 - #15		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	44.9 kg (99.0 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00458 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 53

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

4P - 9690 Generator

Table 348

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	Winding #1 8 - #14	Winding #2 2 - #14 2 - #15	#8 SQ
Mean Length Turn	1186.2 mm (46.7 inch)		-
Copper Weight	37.3 kg (82.3 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	8 - #2/0 and 6 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00603 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 56

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

4P - 9692 Generator

Table 349

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	172.7 mm (6.8 inch)		172.7 mm (6.8 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	Winding #1 5-6-5-6	Winding #2 6-5-6-5	-
Turns/Pole	-		130
No. & Wire Size	6 - #16	3 - #16	#8 SQ
Mean Length Turn	922.0 mm (36.3 inch)		-
Copper Weight	25.9 kg (57.2 lb)		35.7 kg (78.7 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #12 and 6 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0175 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.753 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 54⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

4P - 9905 Generator

Table 350

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.6800 mm (14.2 inch)		360.6800 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1386.8 mm (54.6 inch)		-
Copper Weight	36.8 kg (81.1 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0195		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 02

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

4P - 9906 Generator

Table 351

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (3-2-2-2)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14 and 5 - #15		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	41.7 kg (91.9 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00459 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

4P - 9907 Generator

Table 352

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1645.9 mm (64.8 inch)		-
Copper Weight	52.9 kg (116.7 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.014 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

i01353109

Winding Data for 4W-0183 Generator through 4W-9669 Generator

SMCS Code: 4450

4W-0183 Generator

Table 353

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	228.6 mm (9.0 inch)		228.6 mm (9.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	5.00		-
Turns/Pole	-		96
No. & Wire Size	5 - #16 SQ		1 - #8 3/4 RD
Mean Length Turn	998.2 mm (39.3 inch)		-
Copper Weight	17.8 kg (39.2 lb)		18.2 kg (40.1 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #6		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0344 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8188 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 05

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

4W-0184 Generator

Table 354

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	203.2 mm (8.0 inch)		203.2 mm (8.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	4.60 (5-4-5-4-5)		-
Turns/Pole	-		110
No. & Wire Size	7 - #15 SQ		1 - #7 SQ
Mean Length Turn	1082.0 mm (42.6 inch)		-
Copper Weight	1750.1 mm (68.9 inch)		34.2 kg (75.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0194 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.6093 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #16.0 SQ	2 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	-
Copper Weight	4.1 kg (9.0 lb)	3.6 kg (8.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #8	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 05

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

4W-6905 Generator

Table 355

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	381.0 mm (15.0 inch)		381.0 mm (15.0 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	2.00		-
Turns/Pole	-		110
No. & Wire Size	14 - #14 SQ		1 - #7 SQ
Mean Length Turn	1544.3 mm (60.8 inch)		-
Copper Weight	48.9 kg (107.9 lb)		49.2 kg (108.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #000		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0048 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8759 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #15.5 SQ	2 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	-
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 02

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

4W-7049 Generator

Table 356

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	406.4 mm (16.0 inch)		406.4 mm (16.0 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	1.80 (2-2-1-2-2)		-
Turns/Pole	-		130
No. & Wire Size	14 - #14 SQ		1 - #8 SQ
Mean Length Turn	1595.1 mm (62.8 inch)		-
Copper Weight	45.5 kg (100.3 lb)		58.0 kg (127.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0044 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.1297 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #15.5 SQ	2 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	-
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

4W-7421 Generator

Table 357

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	177.8 mm (7.0 inch)		177.8 mm (7.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	5.20 (5-5-6-5-5)		-
Turns/Pole	-		96
No. & Wire Size	4 - #15 SQ		1 - #8 3/4 RD
Mean Length Turn	896.6 mm (35.3 inch)		-
Copper Weight	16.8 kg (37.0 lb)		15.8 kg (34.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #6		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0319 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7131 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

4W-7422 Generator

Table 358

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	177.8 mm (7.0 inch)		177.8 mm (7.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	6.60 (7-6-7-6-7)		-
Turns/Pole	-		96
No. & Wire Size	2 - #13 SQ		1 - #8 3/4 RD
Mean Length Turn	896.6 mm (35.3 inch)		-
Copper Weight	16.9 kg (37.3 lb)		15.8 kg (34.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #6		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0509 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7131 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 05

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

4W-7423 Generator

Table 359

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	177.8 mm (7.0 inch)		177.8 mm (7.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	5.20 (5-5-6-5-5)		-
Turns/Pole	-		96
No. & Wire Size	4 - #15 SQ		1 - #8 3/4 RD
Mean Length Turn	896.6 mm (35.3 inch)		-
Copper Weight	16.8 kg (37.0 lb)		15.8 kg (34.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #6		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0319 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7131 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

4W-7424 Generator

Table 360

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	152.4 mm (6.0 inch)		203.2 mm (8.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	5.00		-
Turns/Pole	-		110
No. & Wire Size	7 - #15 SQ		1 - #7 SQ
Mean Length Turn	980.4 mm (38.6 inch)		-
Copper Weight	30.8 kg (67.9 lb)		29.9 kg (66.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0191 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.5331 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #16.0 SQ	2 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	-
Copper Weight	4.1 kg (9.0 lb)	3.6 kg (8.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #8	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

4W-7425 Generator

Table 361

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	152.4 mm (6.0 inch)		203.2 mm (8.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	6.40 (6-7-6-7-6)		-
Turns/Pole	-		110
No. & Wire Size	7 - #16 SQ		1 - #7 SQ
Mean Length Turn	980.4 mm (38.6 inch)		-
Copper Weight	1750.1 mm (68.9 inch)		29.9 kg (66.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0309 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.5331 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #16.0 SQ	2 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	-
Copper Weight	4.1 kg (9.0 lb)	3.6 kg (8.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #8	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 05

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

4W-7427 Generator

Table 362

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	203.2 mm (8.0 inch)		203.2 mm (8.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	3.60 (4-3-4-3-4)		-
Turns/Pole	-		110
No. & Wire Size	7 - #14 SQ		1 - #7 SQ
Mean Length Turn	1082.0 mm (42.6 inch)		-
Copper Weight	30.8 kg (68.0 lb)		34.2 kg (75.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0120 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.6093 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #16.0 SQ	2 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	-
Copper Weight	4.1 kg (9.0 lb)	3.6 kg (8.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #8	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

4W-7428 Generator

Table 363

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	203.2 mm (8.0 inch)		203.2 mm (8.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	4.60 (5-4-5-4-5)		-
Turns/Pole	-		110
No. & Wire Size	7 - #15 SQ		1 - #7 SQ
Mean Length Turn	1082.0 mm (42.6 inch)		-
Copper Weight	1750.1 mm (68.9 inch)		34.2 kg (75.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0194 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.6093 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #16.0 SQ	2 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	-
Copper Weight	4.1 kg (9.0 lb)	3.6 kg (8.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #8	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 05

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

4W-7429 Generator

Table 364

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	203.2 mm (8.0 inch)		203.2 mm (8.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	3.60 (4-3-4-3-4)		-
Turns/Pole	-		110
No. & Wire Size	7 - #14 SQ		1 - #7 SQ
Mean Length Turn	1082.0 mm (42.6 inch)		-
Copper Weight	30.8 kg (68.0 lb)		34.2 kg (75.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0120 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.6093 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #16.0 SQ	2 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	-
Copper Weight	4.1 kg (9.0 lb)	3.6 kg (8.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #8	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

4W-7430 Generator

Table 365

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	248.9 mm (9.8 inch)		248.9 mm (9.8 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	3.00		-
Turns/Pole	-		110
No. & Wire Size	9 - #14 SQ		1 - #7 SQ
Mean Length Turn	1170.9 mm (46.1 inch)		-
Copper Weight	35.8 kg (78.9 lb)		38.0 kg (83.7 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0085 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.6759 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #16.0 SQ	2 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	-
Copper Weight	4.1 kg (9.0 lb)	3.6 kg (8.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #8	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

4W-7431 Generator

Table 366

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	248.9 mm (9.8 inch)		248.9 mm (9.8 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	3.80 (4-4-3-4-4)		-
Turns/Pole	-		110
No. & Wire Size	9 - #15 SQ		1 - #7 SQ
Mean Length Turn	1170.9 mm (46.1 inch)		-
Copper Weight	35.9 kg (79.2 lb)		38.0 kg (83.7 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0135 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.6759 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #16.0 SQ	2 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	-
Copper Weight	4.1 kg (9.0 lb)	3.6 kg (8.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #8	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 05

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

4W-7433 Generator

Table 367

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	228.6 mm (9.0 inch)		228.6 mm (9.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	4.00		-
Turns/Pole	-		96
No. & Wire Size	5 - #15 SQ		1 - #8 3/4 RD
Mean Length Turn	998.2 mm (39.3 inch)		-
Copper Weight	18.0 kg (39.6 lb)		19.2 kg (42.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0218 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8188 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

4W-7434 Generator

Table 368

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	203.2 mm (8.0 inch)		203.2 mm (8.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	3.60 (4-3-4-3-4)		-
Turns/Pole	-		110
No. & Wire Size	7 - #14 SQ		1 - #7 SQ
Mean Length Turn	1082.0 mm (42.6 inch)		-
Copper Weight	30.8 kg (68.0 lb)		34.2 kg (75.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0120 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.6093 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #16.0 SQ	2 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	-
Copper Weight	4.1 kg (9.0 lb)	3.6 kg (8.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #8	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

4W-8950 Generator

Table 369

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	139.7 mm (5.5 inch)		228.6 mm (9.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	6.80		-
Turns/Pole	-		96
No. & Wire Size	3 - #15 SQ		1 - #8 3/4 RD
Mean Length Turn	820.4 mm (32.3 inch)		-
Copper Weight	15.1 kg (33.2 lb)		14.1 kg (31.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #8		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0508 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.6338 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

4W-8951 Generator

Table 370

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	228.6 mm (9.0 inch)		228.6 mm (9.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	4.00		-
Turns/Pole	-		96
No. & Wire Size	5 - #15 SQ		1 - #8 3/4 RD
Mean Length Turn	998.2 mm (39.3 inch)		-
Copper Weight	18.0 kg (39.6 lb)		19.2 kg (42.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0218 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8188 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

4W-8952 Generator

Table 371

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	289.6 mm (11.4 inch)		289.6 mm (11.4 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	3.20 (3-3-3-3-4)		-
Turns/Pole	-		96
No. & Wire Size	5 - #14 SQ		1 - #8 3/4 RD
Mean Length Turn	1120.1 mm (44.1 inch)		-
Copper Weight	20.3 kg (44.7 lb)		21.0 kg (46.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0155 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9444 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

4W-8953 Generator

Table 372

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	289.6 mm (11.4 inch)		289.6 mm (11.4 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	3.20 (3-3-3-3-4)		-
Turns/Pole	-		96
No. & Wire Size	5 - #14 SQ		1 - #8 3/4 RD
Mean Length Turn	1120.1 mm (44.1 inch)		-
Copper Weight	20.3 kg (44.7 lb)		21.0 kg (46.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0155 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9444 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

4W-8954 Generator

Table 373

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	289.6 mm (11.4 inch)		289.6 mm (11.4 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	3.20 (3-3-3-3-4)		-
Turns/Pole	-		96
No. & Wire Size	5 - #14 SQ		1 - #8 3/4 RD
Mean Length Turn	1120.1 mm (44.1 inch)		-
Copper Weight	20.3 kg (44.7 lb)		21.0 kg (46.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0155 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9444 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

4W-9069 Generator

Table 374

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	266.7 mm (10.5 inch)		
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	2.00		-
Turns/Pole	-		160
No. & Wire Size	11 - #13 SQ		1 - #7 SQ
Mean Length Turn	1346.2 mm (53.0 inch)		-
Copper Weight	50.7 kg (111.8 lb)		73.9 kg (162.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0050 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8840 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #15.5 SQ	2 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	-
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

4W-9666 Generator

Table 375

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	139.7 mm (5.5 inch)		139.7 mm (5.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	8.60 (9-8-9-8-9)		-
Turns/Pole	-		96
No. & Wire Size	3 - #16 SQ		1 - #8 3/4 RD
Mean Length Turn	820.4 mm (32.3 inch)		-
Copper Weight	15.1 kg (33.3 lb)		14.1 kg (31.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #8		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0811 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.6338 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 05

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

4W-9667 Generator

Table 376

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	228.6 mm (9.0 inch)		228.6 mm (9.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	5.00		-
Turns/Pole	-		96
No. & Wire Size	5 - #16 SQ		1 - #8 3/4 RD
Mean Length Turn	998.2 mm (39.3 inch)		-
Copper Weight	17.8 kg (39.2 lb)		18.2 kg (40.1 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #6		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0344 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8188 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 05

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

4W-9668 Generator

Table 377

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	289.6 mm (11.4 inch)		289.6 mm (11.4 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	4.00		-
Turns/Pole	-		96
No. & Wire Size	5 - #15 SQ		1 - #8 3/4 RD
Mean Length Turn	1120.1 mm (44.1 inch)		-
Copper Weight	20.1 kg (44.3 lb)		21.0 kg (46.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0245 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9444 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 05

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

4W-9669 Generator

Table 378

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	289.6 mm (11.4 inch)		289.6 mm (11.4 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	4.00		-
Turns/Pole	-		96
No. & Wire Size	5 - #15 SQ		1 - #8 3/4 RD
Mean Length Turn	1120.1 mm (44.1 inch)		-
Copper Weight	20.1 kg (44.3 lb)		21.0 kg (46.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0245 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9444 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 05

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

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Winding Data for 5N-0001 Generator through 5N-0025 Generator

SMCS Code: 4450

5N-0001 Generator

Table 379

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	5.4 (5,6,5,6,5)	-	-
Turns/Pole	-	112	96
No. & Wire Size	3 - #14	4 - #15	1 - #9
Mean Length Turn	853.4 mm (33.6 inch)	-	-
Copper Weight	15.4 kg (34.7 lb)	17.7 kg (39.8 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #8	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0357 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.814 ohms	0.715 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	20	8	
No. & Size Wire	2 - #17.5	2 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	342.9 mm (13.5 inch)	279.4 mm (11.0 inch)	
Copper Weight	# 16 3.4 kg (7.6 lb) #17 2.7 kg (6.0 lb)	2.7 kg (6.0 lb)	
Insulation	H. Polythermaleze		

(continued)

(Table 379, contd)

Connection ⁽²⁾	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 0002 Generator

Table 380

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	5.6 (6,6,4,6,6)	-	-
Turns/Pole	-	125	110
No. & Wire Size	6 - #15	5 - #14	1 - #7
Mean Length Turn	934.7 mm (36.8 inch)	-	-
Copper Weight	29.0 kg (64.0 lb)	32.6 kg (72.0 lb)	29.8 kg (65.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	6 - #15	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0242 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.576 ohms	0.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	140	6
No. & Size Wire	2 - #17	1 - #16	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	457.2 mm (18.0 inch)	279.4 mm (11.0 inch)	355.6 mm (14.0 inch)
Copper Weight	6.4 kg (14.0 lb)	4.1 kg (9.0 lb)	2.4 kg (5.4 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	114.3 mm (4.5 inch)

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N-0003 Generator

Table 381

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3.6 (3,3,4,4,4)	-	-
Turns/Pole	-	125	110
No. & Wire Size	7 - #14	5 - #14	1 - #7
Mean Length Turn	1036.3 mm (40.8 inch)	-	-
Copper Weight	29.5 kg (65.2 lb)	37.4 kg (82.5 lb)	34.2 kg (75.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0121 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.660 ohms	0.621 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	140	6
No. & Size Wire	2 - #17	1 - #16	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	457.2 mm (18.0 inch)	279.4 mm (11.0 inch)	355.6 mm (14.0 inch)
Copper Weight	6.4 kg (14.0 lb)	4.1 kg (9.0 lb)	2.4 kg (5.4 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #02

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N-0004 Generator

Table 382

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.8 (3,3,2,3,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	10 - #14	5 - #13	1 - #7
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	39.5 kg (87.0 lb)	45.7 kg (100.7 lb)	41.7 kg (91.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0078 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.514 ohms	0.76 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given for manual rewind only.

5N-0005 Generator

Table 383

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	83	110
No. & Wire Size	14 - #14	6 - #13	1 - #7
Mean Length Turn	1503.7 mm (59.2 inch)	-	-
Copper Weight	47.6 kg (105.0 lb)	53.9 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0050 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given for manual rewind only.

5N-0006 Generator

Table 384

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.4 (2,2,2,3,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	12 - #14	5 - #13	1 - #7
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	43.2 kg (97.1 lb)	49.9 kg (110.0 lb)	44.9 kg (98.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0061 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.551 ohms	0.82 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given for manual rewind only.

5N - 0007 Generator

Table 385

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.8 (3,3,2,3,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	10 - #14	5 - #13	1 - #7
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	39.5 kg (87.0 lb)	45.7 kg (100.7 lb)	41.7 kg (91.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0078 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.514 ohms	0.76 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given for manual rewind only.

5N-0010 Generator

Table 386

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	3.4 (4,3,3,3,4)	-	-
Turns/Pole	-	125	110
No. & Wire Size	8 - #14	5 - #14	1 - #7
Mean Length Turn	1135.4 mm (44.7 inch)	-	-
Copper Weight	35.4 kg (78.0 lb)	37.4 kg (82.5 lb)	34.2 kg (75.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #6	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0108 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.660 ohms	0.621 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	19	95	6
No. & Size Wire	1 - #16 1 - #17	1 - #14	4 - #17
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	457.2 mm (18.0 inch)	365.8 mm (14.4 inch)	355.6 mm (14.0 inch)
Copper Weight	3.5 kg (7.7 lb)	3.9 kg (8.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A**Note:** Specifications given for manual rewind only.

5N-0011 Generator

Table 387

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3.6 (3,3,4,4,4)	-	-
Turns/Pole	-	125	110
No. & Wire Size	7 - #14	5 - #14	1 - #7
Mean Length Turn	1036.3 mm (40.8 inch)	-	-
Copper Weight	29.5 kg (65.2 lb)	37.4 kg (82.5 lb)	34.2 kg (75.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0121 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.660 ohms	0.621 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	140	6
No. & Size Wire	2 - #17	1 - #16	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	457.2 mm (18 inch)	279.4 mm (11.0 inch)	355.6 mm (14.0 inch)
Copper Weight	6.4 kg (14.0 lb)	4.1 kg (9.0 lb)	2.4 kg (5.4 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #02

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given for manual rewind only.

5N-0012 Generator

Table 388

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	83	110
No. & Wire Size	14 - #14	6 - #13	1 - #7
Mean Length Turn	1503.7 mm (59.2 inch)	-	-
Copper Weight	47.6 kg (105.0 lb)	54.0 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0050 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A**Note:** Specifications given for manual rewind only.

5N-0013 Generator

Table 389

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	83	110
No. & Wire Size	14 - #14	6 - #13	1 - #7
Mean Length Turn	1503.7 mm (59.2 inch)	-	-
Copper Weight	47.6 kg (105.0 lb)	54.0 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0050 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (38.0 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given for manual rewind only.

5N-0014 Generator

Table 390

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	5	-	-
Turns/Pole	-	125	110
No. & Wire Size	7 - #15	5 - #14	1 - #7
Mean Length Turn	934.7 mm (36.8 inch)	-	-
Copper Weight	29.4 kg (66.0 lb)	32.6 kg (72.0 lb)	29.8 kg (65.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #14	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0189 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.576 ohms	0.550
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	19	95	6
No. & Size Wire	1 - #16 1 - #17	1 - #14	4 - #17
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	457.2 mm (18.0 inch)	365.8 mm (14.4 inch)	355.6 mm (14.0 inch)
Copper Weight	3.5 kg (7.7 lb)	3.9 kg (8.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A**Note:** Specifications given for manual rewind only.

5N-0015 Generator

Table 391

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	5.6 (6,6,4,6,6)	-	-
Turns/Pole	-	125	110
No. & Wire Size	6 - #15	5 - #14	1 - #7
Mean Length Turn	934.7 mm (36.8 inch)	-	-
Copper Weight	29.0 kg (64.0 lb)	32.6 kg (72.0 lb)	29.8 kg (65.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	6 - #15	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0242 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.576 ohms	0.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	140	6
No. & Size Wire	2 - #17	1 - #16	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	457.2 mm (18 inch)	279.4 mm (11.0 inch)	355.6 mm (14.0 inch)
Copper Weight	6.4 kg (14.0 lb)	4.1 kg (9.0 lb)	2.4 kg (5.4 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coils (28 turns from TO).

Note: Specifications given for manual rewind only.

5N-0016 Generator

Table 392

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	7	-	-
Turns/Pole	-	125	110
No. & Wire Size	6 - #16	5 - #14	1 - #7
Mean Length Turn	934.7 mm (36.8 inch)	-	-
Copper Weight	28.6 kg (63.0 lb)	32.6 kg (72.0 lb)	29.9 kg (65.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #6	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0373 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.576 ohms	0.550 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	140	6
No. & Size Wire	2 - #17	1 - #16	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	457.2 mm (18 inch)	279.4 mm (11.0 inch)	355.6 mm (14.0 inch)
Copper Weight	6.4 kg (14.0 lb)	4.1 kg (9.0 lb)	2.4 kg (5.4 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #05⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between 4th and 5th coils (28 turns from T0).

Note: Specifications given for manual rewind only.

5N-0017 Generator

Table 393

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	3.4 (4,3,3,3,4)	-	-
Turns/Pole	-	125	110
No. & Wire Size	8 - #14	5 - #14	1 - #7
Mean Length Turn	1135.4 mm (44.7 inch)	-	-
Copper Weight	35.4 kg (78.0 lb)	37.4 kg (82.5 lb)	34.2 kg (75.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #6	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0108 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.660 ohms	0.621 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	19	95	6
No. & Size Wire	1 - #16 1 - #17	1 - #14	4 - #17
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	457.2 mm (18.0 inch)	365.8 mm (14.4 inch)	355.6 mm (14.0 inch)
Copper Weight	3.5 kg (7.7 lb)	3.9 kg (8.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given for manual rewind only.

5N-0018 Generator

Table 394

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3.6 (3,3,4,4,4)	-	-
Turns/Pole	-	125	110
No. & Wire Size	7 - #14	5 - #14	1 - #7
Mean Length Turn	1036.3 mm (40.8 inch)	-	-
Copper Weight	29.5 kg (65.2 lb)	37.4 kg (82.5 lb)	34.2 kg (75.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0121 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.660 ohms	0.621 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	140	6
No. & Size Wire	2 - #17	1 - #16	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	457.2 mm (18 inch)	279.4 mm (11.0 inch)	355.6 mm (14.0 inch)
Copper Weight	6.4 kg (14.0 lb)	4.1 kg (9.0 lb)	2.4 kg (5.4 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #02⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A**Note:** Specifications given for manual rewind only.

5N-0019 Generator

Table 395

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	4.6 (4,4,5,5,5)	-	-
Turns/Pole	-	125	110
No. & Wire Size	7 - #15	5 - #14	1 - #7
Mean Length Turn	1036.3 mm (40.8 inch)	-	-
Copper Weight	29.9 kg (66.0 lb)	36.7 kg (82.5 lb)	34.2 kg (75.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0194 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.660 ohms	0.621 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	140	6
No. & Size Wire	2 - #17	1 - #16	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	457.2 mm (18 inch)	279.4 mm (11.0 inch)	355.6 mm (14.0 inch)
Copper Weight	6.4 kg (14.0 lb)	4.1 kg (9.0 lb)	2.4 kg (5.4 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #05

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between 4th and 5th coil (18 turns from T0).

Note: Specifications given for manual rewind only.

5N-0020 Generator

Table 396

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.4 (2,3,2,3,2)	-	-
Turns/Pole	-	100	110
No. & Wire Size	12 - #14	5 - #13	1 - #7
Mean Length Turn	1226.8 mm (48.3 inch)	-	-
Copper Weight	39.6 kg (89.0 lb)	44.8 kg (100.7 lb)	41.7 kg (91.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0058 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.514 ohms	0.76 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	19	4	
No. & Size Wire	1 - #16 1 - #17	4 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	406.4 mm (16.0 inch)	
Copper Weight	6.4 kg (14.0 lb)	3.4 kg (7.6 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-0021 Generator

Table 397

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.8 (3,3,2,3,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	10 - #14	5 - #13	1 - #7
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	39.5 kg (87.0 lb)	45.7 kg (100.7 lb)	41.7 kg (91.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0078 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.514 ohms	0.76 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (38.0 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given for manual rewind only.

5N-0022 Generator

Table 398

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3.4 (3,4,3,4,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	10 - #15	5 - #13	1 - #7
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	38.1 kg (84.0 lb)	44.8 kg (100.7 lb)	41.7 kg (91.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #6	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0117 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.514 ohms	0.76 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (38.0 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (14 turns from T0).

Note: Specifications given for manual rewind only.

5N-0023 Generator

Table 399

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 -13	-	-
Turns/Coil	1.8 (2,2,1,2,2)	-	-
Turns/Pole	-	83	110
No. & Wire Size	15 - #14	6 - #13	1 - #7
Mean Length Turn	1465.6 mm (57.7 inch)	-	-
Copper Weight	45.8 kg (101.0 lb)	52.9 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00418 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	19	4	
No. & Size Wire	1 - #16 1 - #17	4 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	406.4 mm (16.0 inch)	
Copper Weight	6.4 kg (14.0 lb)	3.4 kg (7.6 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-0024 Generator

Table 400

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	83	110
No. & Wire Size	14 - #14	6 - #13	1 - #7
Mean Length Turn	1503.7 mm (59.2 inch)	-	-
Copper Weight	47.6 kg (105.0 lb)	54.0 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0050 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given for manual rewind only.

5N-0025 Generator

Table 401

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.6 (2,2,3,3,3)	-	-
Turns/Pole	-	83	110
No. & Wire Size	13 - #15	6 - #13	1 - # 7
Mean Length Turn	1452.9 mm (57.2 inch)	-	-
Copper Weight	44.9 kg (101.0 lb)	52.9 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0084 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (38.0 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given for manual rewind only.

i01305199

Winding Data for 5N-0027 Generator through 5N-0050 Generator

SMCS Code: 4450

5N-0027 Generator

Table 402

MAIN STATOR AND ROTOR WINDING DATA ⁽¹⁾			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	247.7 mm (9.75 inch)	247.7 mm (9.75 inch)	247.7 mm (9.75 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3	-	-
Turns/Pole	-	125	110
No. & Wire Size	9 - #14	5 - #14	1 - #7
Mean Length Turn (Calc.)	1188.7 mm (46.8 inch)	-	-
Copper Weight	36.1 kg (79.5 lb)	41.5 kg (91.6 lb)	37.9 kg (83.6 lb)
Inside Connection ⁽²⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 °C (77 °F)	0.0099 ohms	-	-
Field lead resistance at 25 °C (77 °F)	-	0.768 ohms	0.686 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	19	95	6
No. & Size Wire	1 - #16 and 1 - #17	1 - #14	4 - #17
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn	457.2 mm (18.0 inch)	365.8 mm (14.4 inch)	355.6 mm (14.0 inch)
Copper Weight	3.5 kg (7.7 lb)	3.9 kg (8.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽³⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) Specifications given are for manual rewind only.

(2) See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

(3) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 0028 Generator

Table 403

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	247.7 mm (9.75 inch)	247.7 mm (9.75 inch)	247.7 mm (9.75 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3	-	-
Turns/Pole	-	125	110
No. & Wire Size	9 - #14	5 - #14	1 - #7
Mean Length Turn	1188.7 mm (46.8 inch)	-	-
Copper Weight	34.8 kg (76.7 lb)	41.5 kg (91.6 lb)	37.9 kg (83.6 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	12 - #0	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0082 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.768 ohms	0.686 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	140	6
No. & Size Wire	2 - #17	1 - #16	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	457.2 mm (18.0 inch)	279.4 mm (11.0 inch)	355.6 mm (14.0 inch)
Copper Weight	6.4 kg (14.0 lb)	4.1 kg (9.0 lb)	2.4 kg (5.4 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0029 Generator

Table 404

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	247.7 mm (9.75 inch)	247.7 mm (9.75 inch)	247.7 mm (9.75 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	4.2 (4,4,5,4,4)	-	-
Turns/Pole	-	125	110
No. & Wire Size	8 - #15	5 - #14	1 - #7
Mean Length Turn	1188.7 mm (46.8 inch)	-	-
Copper Weight	35.9 kg (79.1 lb)	41.5 kg (91.6 lb)	37.9 kg (83.6 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0159 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.768 ohms	0.686 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	140	6
No. & Size Wire	2 - #17	1 - #16	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	457.2 mm (18.0 inch)	279.4 mm (11.0 inch)	355.6 mm (14.0 inch)
Copper Weight	6.4 kg (14.0 lb)	4.1 kg (9.0 lb)	2.4 kg (5.4 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #05

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N-0030 Generator

Table 405

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.4 (2,3,2,3,2)	-	-
Turns/Pole	-	100	110
No. & Wire Size	12 - #14	5 - #13	1 - #7
Mean Length Turn	1226.8 mm (48.3 inch)	-	-
Copper Weight	39.6 kg (89.0 lb)	44.8 kg (100.7 lb)	41.7 kg (91.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0058 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.514 ohms	0.76 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	19	4	
No. & Size Wire	1 - #16 1 - #17	4 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	406.4 mm (16.0 inch)	
Copper Weight	6.4 kg (14.0 lb)	3.4 kg (7.6 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-0031 Generator

Table 406

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.8 (3,3,2,3,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	10 - #14	5 - #13	1 - #7
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	39.5 kg (87.0 lb)	45.7 kg (100.7 lb)	41.7 kg (91.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0078 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.514 ohms	0.76 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0032 Generator

Table 407

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3.4 (3,4,3,4,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	10 - #15	5 - #13	1 - #7
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	38.1 kg (84.0 lb)	44.8 kg (100.7 lb)	41.7kg (91.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #6	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0117 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.514 ohms	0.76 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (14 turns from T0).

Note: Specifications are given for manual rewind only.

5N-0033 Generator

Table 408

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)
Slots	60	-	-
Coil Throw	1-14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	100	110
No. & Wire Size	11 - #13	5 - #13	1 - #7
Mean Length Turn	1399.5 mm (55.1 inch)	-	-
Copper Weight	43.9 kg (97.0 lb)	49.9 kg (110.0 lb)	44.9 kg (98.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0047 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.551 ohms	0.820 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	19	4	
No. & Size Wire	1 - #16 1 - #17	4 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	406.4 mm (16.0 inch)	
Copper Weight	6.4 kg (14.0 lb)	3.4 kg (7.6 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 0034 Generator

Table 409

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.4 (2,2,2,3,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	12 - #14	5 - #13	1 - #7
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	43.2 kg (97.1 lb)	49.9 kg (110.0 lb)	44.9 kg (98.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0061 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.551 ohms	0.82 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0035 Generator

Table 410

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	3	-	-
Turns/Pole	-	100	110
No. & Wire Size	12 - #15	5 - #13	1 - #7
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	43.7 kg (96.3 lb)	49.9 kg (110.0 lb)	44.9 kg (98.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0094 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.551 ohms	0.82 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N-0036 Generator

Table 411

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 -13	-	-
Turns/Coil	1.8 (2,2,1,2,2)	-	-
Turns/Pole	-	83	110
No. & Wire Size	15 - #14	6 - #13	1 - #7
Mean Length Turn	1465.6 mm (57.7 inch)	-	-
Copper Weight	45.8 kg (101.0 lb)	52.9 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00418 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	19	4	
No. & Size Wire	1 - #16 1 - #17	4 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	406.4 mm (16.0 inch)	
Copper Weight	6.4 kg (14.0 lb)	3.4 kg (7.6 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-0037 Generator

Table 412

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	83	110
No. & Wire Size	14 - #14	6 - #13	1 - #7
Mean Length Turn	1503.7 mm (59.2 inch)	-	-
Copper Weight	47.6 kg (105.0 lb)	54.0 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0050 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0038 Generator

Table 413

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.6 (2,2,3,3,3)	-	-
Turns/Pole	-	83	110
No. & Wire Size	13 - #15	6 - #13	1 - #7
Mean Length Turn	1452.9 mm (57.2 inch)	-	-
Copper Weight	44.9 kg (101.0 lb)	52.9 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0084 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A**Note:** Specifications given are for manual rewind only.

5N-0039 Generator

Table 414

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 -13	-	-
Turns/Coil	1.8 (2,2,1,2,2)	-	-
Turns/Pole	-	83	110
No. & Wire Size	15 - #14	6 - #13	1 - #7
Mean Length Turn	1465.6 mm (57.7 inch)	-	-
Copper Weight	45.8 kg (101.0 lb)	52.9 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00418 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	19	4	
No. & Size Wire	1 - #16 1 - #17	4 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	406.4 mm (16.0 inch)	
Copper Weight	6.4 kg (14.0 lb)	3.4 kg (7.6 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-0040 Generator

Table 415

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	83	110
No. & Wire Size	14 - #14	6 - #13	1 - #7
Mean Length Turn	1503.7 mm (59.2 inch)	-	-
Copper Weight	47.6 kg (105.0 lb)	54.0 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0050 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N-0041 Generator

Table 416

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.6 (2,2,3,3,3)	-	-
Turns/Pole	-	83	110
No. & Wire Size	13 - #15	6 - #13	1 - #7
Mean Length Turn	1452.9 mm (57.2 inch)	-	-
Copper Weight	44.9 kg (101.0 lb)	52.9 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0084 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0042 Generator

Table 417

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	83	110
No. & Wire Size	14 - #14	6 - #13	1 - #7
Mean Length Turn	1503.7 mm (59.2 inch)	-	-
Copper Weight	47.6 kg (105.0 lb)	54.0 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0050 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0043 Generator

Table 418

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	266.7 mm (10.5 inch)	266.7 mm (10.5 inch)	266.7 mm (10.5 inch)
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	150	160
No. & Wire Size	11 - #13	4 - #12	1 - #7 sq
Mean Length Turn	1346.2 mm (53.0 inch)	-	-
Copper Weight	50.8 kg (112.0 lb)	70.3 kg (155.0 lb)	76.7 kg (169.1 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #1	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0051 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.793 ohms	0.916 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	28	140	6
No. & Size Wire	2 - #18	1 - #15.5	4 - #18
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	414.0 mm (16.3 inch)	406.4 mm (16.0 inch)
Copper Weight	3.1 kg (6.8 lb) 2.5 kg (5.4 lb)	4.7 kg (10.3 lb)	2.7 kg (6.0 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	6 Parallel Star	Series	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N-0044 Generator

Table 419

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	266.7 mm (10.5 inch)	266.7 mm (10.5 inch)	266.7 mm (10.5 inch)
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2.5(2,3,2,3,2,3)	-	-
Turns/Pole	-	150	160
No. & Wire Size	9 - #13	3 - #12	1 - #7 sq
Mean Length Turn	1346.2 mm (53.0 inch)	-	-
Copper Weight	51.7 kg (114.0 lb)	70.3 kg (155.0 lb)	76.7 kg (169.1 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0079 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.793 ohms	0.916 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	28	140	6
No. & Size Wire	2 - #18	1 - #15.5	4 - #18
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	414.0 mm (16.3 inch)	406.4 mm (16.0 inch)
Copper Weight	3.1 kg (6.8 lb) 2.5 kg (5.4 lb)	4.7 kg (10.3 lb)	2.7 kg (6.0 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	6 Parallel Star	Series	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 5th and 6th coil (12 turns from T0).

Note: Specifications given are for manual rewind only.

5N - 0045 Generator

Table 420

MAIN STATOR AND ROTOR WINDING DATA ⁽¹⁾			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	289.6 mm (11.4 inch)	289.6 mm (11.4 inch)	289.6 mm (11.4 inch)
Slots	66 ⁽²⁾	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	1	-	-
Turns/Pole	-	150	160
No. & Wire Size	25 - #13	4 - #12	1 - #7 sq
Mean Length Turn	1374.1 mm (54.1 inch)	-	-
Copper Weight	53.9 kg (119.0 lb)	75.3 kg (166.0 lb)	81.2 kg (179.0 lb)
Inside Connection ⁽³⁾	2/1 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #1	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0046 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.836 ohms	0.966 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	28	140	6
No. & Size Wire	2 - #18	1 - #15.5	4 - #18
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	414.0 mm (16.3 inch)	406.4 mm (16.0 inch)
Copper Weight	3.1 kg (6.8 lb) 2.5 kg (5.4 lb)	4.7 kg (10.3 lb)	2.7 kg (6.0 lb)
Insulation	H. Polythermaleze		
Connection ⁽⁴⁾	6 Parallel Star	Series	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) Specifications given are for manual rewind only.

(2) Wind 6 coil groups with 5 coils per group and 6 coil groups with 6 coils per group. Put coil groups in stator (5,6,5,6-etc).

(3) See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #34

(4) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 0046 Generator

Table 421

MAIN STATOR AND ROTOR WINDING DATA⁽¹⁾			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	355.6 mm (14.0 inch)	355.6 mm (14.0 inch)	355.6 mm (14.0 inch)
Slots	54 ⁽²⁾	-	-
Coil Throw	1 - 11	-	-
Turns/Coil	1	-	-
Turns/Pole	-	150	160
No. & Wire Size	30 - #13	4 - #12	1 - #7 sq
Mean Length Turn	1483.4 mm (58.4 inch)	-	-
Copper Weight	57.2 kg (126.0 lb)	84.8 kg (187.0 lb)	-
Inside Connection ⁽³⁾	2/1 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #00	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0036 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.935 ohms	1.084 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	28	140	6
No. & Size Wire	2 - #18	1 - #15.5	4 - #18
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	414.0 mm (16.3 inch)	406.4 mm (16.0 inch)
Copper Weight	3.1 kg (6.8 lb) 2.5 kg (5.4 lb)	4.7 kg (10.3 lb)	2.7 kg (6.0 lb)
Insulation	H. Polythermaleze		
Connection ⁽⁴⁾	6 Parallel Star	Series	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) Specifications given are for manual rewind only.

(2) Wind 6 coil groups with 4 coils per group and 6 coil groups with 5 coils per group. Put coil groups in stator (4,5,4,5-etc).

(3) See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #35

(4) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-0047 Generator

Table 422

MAIN STATOR AND ROTOR WINDING DATA ⁽¹⁾			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	355.6 mm (14.0 inch)	355.6 mm (14.0 inch)	355.6 mm (14.0 inch)
Slots	66 ⁽²⁾	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	1	-	-
Turns/Pole	-	150	160
No. & Wire Size	25 - #13	4 - #12	1 - #7 SQ
Mean Length Turn	1506.2 mm (59.3 inch)	-	-
Copper Weight	58.9 kg (130.0 lb)	84.8 kg (187.0 lb)	-
Inside Connection ⁽³⁾	2/1 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #1	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0052 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.935 ohms	1.084 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	28	140	6
No. & Size Wire	2 - #18	1 - #15.5	4 - #18
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	414.0 mm (16.3 inch)	406.4 mm (16.0 inch)
Copper Weight	3.1 kg (6.8 lb) 2.5 kg (5.4 lb)	4.7 kg (10.3 lb)	2.7 kg (6.0 lb)
Insulation	H. Polythermaleze		
Connection ⁽⁴⁾	6 Parallel Star	Series	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) Specifications given are for manual rewind only.

(2) Wind 6 coil groups with 4 coils per group and 6 coil groups with 5 coils per group. Put coil groups in stator (5,6,5,6-etc).

(3) See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #36

(4) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 9th and 10th coil (9 turns from T0).

5N-0048 Generator

Table 423

MAIN STATOR AND ROTOR WINDING DATA ⁽¹⁾			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	266.7 mm (10.5 inch)	266.7 mm (10.5 inch)	266.7 mm (10.5 inch)
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	150	160
No. & Wire Size	11 - #13	4 - #12	1 - #7 sq
Mean Length Turn	1346.2 mm (53.0 inch)	-	-
Copper Weight	50.8 kg (112.0 lb)	70.3 kg (155.0 lb)	76.7 kg (169.1 lb)
Inside Connection ⁽²⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #1	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0051 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.793 ohms	0.916 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	28	140	6
No. & Size Wire	2 - #18	1 - #15.5	4 - #18
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	414.0 mm (16.3 inch)	406.4 mm (16.0 inch)
Copper Weight	3.1 kg (6.8 lb) 2.5 kg (5.4 lb)	4.7 kg (10.3 lb)	2.7 kg (6.0 lb)
Insulation	H. Polythermaleze		
Connection ⁽³⁾	6 Parallel Star	Series	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ Specifications given are for manual rewind only.

⁽²⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽³⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-0049 Generator

Table 424

MAIN STATOR AND ROTOR WINDING DATA ⁽¹⁾			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	266.7 mm (10.5 inch)	266.7 mm (10.5 inch)	266.7 mm (10.5 inch)
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2.5(2,3,2,3,2,3)	-	-
Turns/Pole	-	150	160
No. & Wire Size	9 - #13	3 - #12	1 - #7 sq
Mean Length Turn	1346.2 mm (53.0 inch)	-	-
Copper Weight	51.7 kg (114.0 lb)	70.3 kg (155.0 lb)	76.7 kg (169.1 lb)
Inside Connection ⁽²⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0079 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.793 ohms	0.916 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	28	140	6
No. & Size Wire	2 - #18	1 - #15.5	4 - #18
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	414.0 mm (16.3 inch)	406.4 mm (16.0 inch)
Copper Weight	3.1 kg (6.8 lb) 2.5 kg (5.4 lb)	4.7 kg (10.3 lb)	2.7 kg (6.0 lb)
Insulation	H. Polythermaleze		
Connection ⁽³⁾	6 Parallel Star	Series	2 Parallel Star
Line Leads ⁽⁴⁾	#14 1219.2 mm (48.0 inch)	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ Specifications given are for manual rewind only.

⁽²⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

⁽³⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

⁽⁴⁾ Wires 20, 22, and 24 are brought out as tap connections between the 5th and 6th coil (12 turns from T0).

5N - 0050 Generator

Table 425

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	4.6(5,4,5,4,5)	-	-
Turns/Pole	-	112	96
No. & Wire Size	2 - #13 1 - #14	4 - #15	1 - #9
Mean Length Turn	853.4 mm (33.6 inch)	-	-
Copper Weight	11.3 kg (24.9 lb) 4.5 kg (9.9 lb)	18.1 kg (39.8 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #6	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0259 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.814 ohms	0.715 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR(FIELD)	ROTOR(ARMATURE)	
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	18	8	
No. & Size Wire	2 - #17	2 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	342.9 mm (13.5 inch)	279.4 inch (11.0 inch)	
Copper Weight	5.7 kg (12.5 lb)	2.4 kg (6.0 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

i01306247

Winding Data for 5N-0051 Generator through 5N-0075 Generator

SMCS Code: 4450

5N-0051 Generator

Table 426

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	5.4 (5,6,5,6,5)	-	-
Turns/Pole	-	112	96
No. & Wire Size	3 - #14	4 - #15	1 - #9
Mean Length Turn	853.4 mm (33.6 inch)	-	-
Copper Weight	15.4 kg (34.7 lb)	17.7 kg (39.8 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #8	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0357 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.814 ohms	0.715 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	20	8	
No. & Size Wire	2 - #17.5	2 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	342.9 mm (13.5 inch)	279.4 mm (11.0 inch)	
Copper Weight	# 16 3.4 kg (7.6 lb) #17 2.7 kg (6.0 lb)	2.7 kg (6.0 lb)	
Insulation	H. Polythermaleze		

(continued)

(Table 426, contd)

Connection ⁽²⁾	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 0052 Generator

Table 427

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	6.8(6,7,7,7,7)	-	-
Turns/Pole	-	112	96
No. & Wire Size	3 - #15	4 - #15	1 - #9
Mean Length Turn	858.5 mm (33.8 inch)	-	-
Copper Weight	15.4 kg (34.7 lb)	17.7 kg (39.8 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #10	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0567 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.814 ohms	0.715 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	20	8	
No. & Size Wire	2 - #17.5	2 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	342.9 mm (13.5 inch)	279.4 mm (11.0 inch)	
Copper Weight	# 16 3.4 kg (7.6 lb) #17 2.7 kg (6.0 lb)	2.7 kg (6.0 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #05

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (27 turns from T0).

5N - 0053 Generator

Table 428

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	4.2(4,4,4,4,5)	-	-
Turns/Pole	-	112	96
No. & Wire Size	3 - #15 2 - #16	4 - #15	1 - #9
Mean Length Turn	909.3 mm (35.8 inch)	-	-
Copper Weight	10.3 kg (22.8 lb) 5.5kg (12.1 lb)	19.7 kg (43.5 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #6	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0249 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.883 ohms	0.820 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR(FIELD)	ROTOR(ARMATURE)	
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	18	8	
No. & Size Wire	2 - #17	2 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	342.9 mm (13.5 inch)	279.4 inch (11.0 inch)	
Copper Weight	5.7 kg (12.5 lb)	2.4 kg (6.0 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 0054 Generator

Table 429

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	4.8(5,5,5,5,4)	-	-
Turns/Pole	-	112	96
No. & Wire Size	4 - #16 1 - #15	4 - #15	1 - #9
Mean Length Turn	901.7 mm (35.5 inch)	-	-
Copper Weight	3.9 kg (8.6 lb) 12.4 kg (27.3 lb)	19.7 kg (43.5 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #6	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0304 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.883 ohms	0.820 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	20	8	
No. & Size Wire	2 - #17.5	2 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	342.9 mm (13.5 inch)	279.4 mm (11.0 inch)	
Copper Weight	# 16 3.4 kg (7.6 lb) #17 2.7 kg (6.0 lb)	2.7 kg (6.0 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 0055 Generator

Table 430

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	6	-	-
Turns/Pole	-	112	96
No. & Wire Size	4 - #16	4 - #13	1 - #9
Mean Length Turn	909.3 mm (35.8 inch)	-	-
Copper Weight	15.6 kg (34.3 lb)	19.7 kg (43.5 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #8	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0491 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.883 ohms	0.820 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	20	8	
No. & Size Wire	2 - #17.5	2 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	342.9 mm (13.5 inch)	279.4 mm (11.0 inch)	
Copper Weight	# 16 3.4 kg (7.6 lb) #17 2.7 kg (6.0 lb)	2.7 kg (6.0 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #05⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (24 turns from T0).

5N - 0056 Gererator

Table 431

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	289.6 mm (11.4 inch)	289.6 mm (11.4 inch)	289.6 mm (11.4 inch)
Slots	66 ⁽¹⁾	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	1	-	-
Turns/Pole	-	150	160
No. & Wire Size	25 - #13	4 - #12	1 - #7 sq
Mean Length Turn	1374.1 mm (54.1 inch)	-	-
Copper Weight	53.9 kg (119.0 lb)	75.3 kg (166.0 lb)	81.2 kg (179.0 lb)
Inside Connection ⁽²⁾	2/1 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #1	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0046 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.836 ohms	0.966 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	28	140	6
No. & Size Wire	2 - #18	1 - #15.5	4 - #18
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	414.0 mm (16.3 inch)	406.4 mm (16.0 inch)
Copper Weight	3.1 kg (6.8 lb) 2.5 kg (5.4 lb)	4.7 kg (10.3 lb)	2.7 kg (6.0 lb)
Insulation	H. Polythermaleze		
Connection ⁽³⁾	6 Parallel Star	Series	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) Wind 6 coil groups with 5 coils per group and 6 coil groups with 6 coils per group. Put coil groups in stator (5,6,5,6-etc).

(2) See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #34

(3) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N-0057 Generator

Table 432

MAIN STATOR AND ROTOR WINDING DATA⁽¹⁾			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	289.6 mm (11.4 inch)	289.6 mm (11.4 inch)	289.6 mm (11.4 inch)
Slots	84	-	-
Coil Throw	1 - 17	-	-
Turns/Coil	2	-	-
Turns/Pole	-	150	160
No. & Wire Size	10 - #13	4 - #12	1 - #7 sq
Mean Length Turn	1501.1 mm (59.1 inch)	-	-
Copper Weight	59.9 kg (132.0 lb)	75.3 kg (166.0 lb)	81.2 kg (179.0 lb)
Inside Connection ⁽²⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #0000	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0072 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.836 ohms	0.966 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	28	140	6
No. & Size Wire	2 - #18	1 - #15.5	4 - #18
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	414.0 mm (16.3 inch)	406.4 mm (16.0 inch)
Copper Weight	3.1 kg (6.8 lb) 2.5 kg (5.4 lb)	4.7 kg (10.3 lb)	2.7 kg (6.0 lb)
Insulation	H. Polythermaleze		
Connection ⁽³⁾	6 Parallel Star	Series	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) Specifications given are for manual rewind only.

(2) See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #37

(3) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20 and 22 are brought out as tap connections between the 5th and 6th coil (10 turns from T0).

Note: Wire 24 is brought out as a tap connection between the 6th and 7th coil (12 turns from T0).

5N - 0058 Generator

Table 433

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	431.8 mm (17.0 inch)	431.8 mm (17.0 inch)	431.8 mm (17.0 inch)
Slots	84	-	-
Coil Throw	1 - 19	-	-
Turns/Coil	1	-	-
Turns/Pole	-	100	160
No. & Wire Size	18 - #13	4 - #12	1 - #7 sq
Mean Length Turn	1724.7 mm (67.9 inch)	-	-
Copper Weight	62.1 kg (137.0 lb)	88.5 kg (195.0 lb)	98.4 kg (217.0 lb)
Inside Connection ⁽²⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #000	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0023 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.055 ohms	1.170 ohms
EXCITER 1 WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	28	140	6
No. & Size Wire	2 - #18	1 - #15.5	4 - #18
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	414.0 mm (16.3 inch)	406.4 mm (16.0 inch)
Copper Weight	3.1 kg (6.8 lb) 2.5 kg (5.4 lb)	4.7 kg (10.3 lb)	2.7 kg (6.0 lb)
Insulation	H. Polythermaleze		
Connection ⁽³⁾	6 Parallel Star	Series	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽²⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽³⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

Table 434

EXCITER 2 WINDING DATA		
Exciter Frequency (Hz)	90 Hz	
Exciter Poles	6	
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)
Coils/Group	1	2
Slots (Coils)	6	36
Turns (Coils)	125	6
No. & Size Wire	1 - # 15	4 - #18
Coil Throw	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	508.0 mm (20.0 inch)
Copper Weight	9.3 kg (20.4 lb)	3.4 kg (7.5 lb)
Insulation	H. Polythermaleze	
Connection ⁽²⁾	6 Parallel Star	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0059 Generator

Table 435

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	431.8 mm (17.0 inch)	431.8 mm (17.0 inch)	431.8 mm (17.0 inch)
Slots	54 ⁽¹⁾	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	1	-	-
Turns/Pole	-	100	160
No. & Wire Size	30 - #13	4 - #12	1 - #7 sq
Mean Length Turn	1714.5 mm (67.5 inch)	-	-
Copper Weight	65.3 kg (144.0 lb)	88.5 kg (195.0 lb)	98.4 kg (217.0 lb)
Inside Connection ⁽²⁾	2/1 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #00	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00328 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.050 ohms	1.170 ohms
EXCITER 1 WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	28	140	6
No. & Size Wire	2 - #18	1 - #15.5	4 - #18
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	414.0 mm (16.3 inch)	406.4 mm (16.0 inch)
Copper Weight	3.1 kg (6.8 lb) 2.5 kg (5.4 lb)	4.7 kg (10.3 lb)	2.7 kg (6.0 lb)
Insulation	H. Polythermaleze		
Connection ⁽³⁾	6 Parallel Star	Series	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) Wind 6 coil groups with 4 coils per group and 6 coil groups with 5 coils per group. Put coil groups in stator (4,5,4,5-etc).

(2) See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #35

(3) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 2nd and 3rd coil (7 turns from T0).

Note: Specifications given are for manual rewind only.

Table 436

EXCITER 2 WINDING DATA		
Exciter Frequency (Hz)	90 Hz	
Exciter Poles	6	
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)
Coils/Group	1	2
Slots (Coils)	6	36
Turns (Coils)	125	6
No. & Size Wire	1 - # 15	4 - #18
Coil Throw	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	508.0 mm (20.0 inch)
Copper Weight	9.3 kg (20.4 lb)	3.4 kg (7.5 lb)
Insulation	H. Polythermaleze	
Connection ⁽²⁾	6 Parallel Star	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0060 Generator

Table 437

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	266.7 mm (10.5 inch)	266.7 mm (10.5 inch)	266.7 mm (10.5 inch)
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	150	160
No. & Wire Size	11 - #13	4 - #12	1 - #7 sq
Mean Length Turn	1346.2 mm (53.0 inch)	-	-
Copper Weight	50.8 kg (112.0 lb)	70.3 kg (155.0 lb)	76.7 kg (169.1 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #1	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0051 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.793 ohms	0.916 ohms
EXCITER 1 WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	28	140	6
No. & Size Wire	2 - #18	1 - #15.5	4 - #18
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	414.0 mm (16.3 inch)	406.4 mm (16.0 inch)
Copper Weight	3.1 kg (6.8 lb) 2.5 kg (5.4 lb)	4.7 kg (10.3 lb)	2.7 kg (6.0 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	6 Parallel Star	Series	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

Table 438

EXCITER 2 WINDING DATA		
Exciter Frequency (Hz)	90 Hz	
Exciter Poles	6	
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)
Coils/Group	1	2
Slots (Coils)	6	36
Turns (Coils)	125	6
No. & Size Wire	1 - # 15	4 - #18
Coil Throw	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	508.0 mm (20.0 inch)
Copper Weight	9.3 kg (20.4 lb)	3.4 kg (7.5 lb)
Insulation	H. Polythermaleze	
Connection ⁽²⁾	6 Parallel Star	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N-0061 Generator

Table 439

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	355.6 mm (14.0 inch)	355.6 mm (14.0 inch)	355.6 mm (14.0 inch)
Slots	54 ⁽¹⁾	-	-
Coil Throw	1 - 11	-	-
Turns/Coil	1	-	-
Turns/Pole	-	150	160
No. & Wire Size	30 - #13	4 - #12	1 - #7 sq
Mean Length Turn	1483.4 mm (58.4 inch)	-	-
Copper Weight	57.2 kg (126.0 lb)	84.8 kg (187.0 lb)	-
Inside Connection ⁽²⁾	2/1 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #00	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0036 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.935 ohms	1.084 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	28	140	6
No. & Size Wire	2 - #18	1 - #15.5	4 - #18
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	414.0 mm (16.3 inch)	406.4 mm (16.0 inch)
Copper Weight	3.1 kg (6.8 lb) 2.5 kg (5.4 lb)	4.7 kg (10.3 lb)	2.7 kg (6.0 lb)
Insulation	H. Polythermaleze		
Connection ⁽³⁾	6 Parallel Star	Series	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) Wind 6 coil groups with 4 coils per group and 6 coil groups with 5 coils per group. Put coil groups in stator (4,5,4,5-etc).

(2) See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #35

(3) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0062 Generator

Table 440

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	431.8 mm (17.0 inch)	431.8 mm (17.0 inch)	431.8 mm (17.0 inch)
Slots	84	-	-
Coil Throw	1 - 19	-	-
Turns/Coil	1	-	-
Turns/Pole	-	100	160
No. & Wire Size	18 - #13	4 - #12	1 - #7 sq
Mean Length Turn	1724.7 mm (67.9 inch)	-	-
Copper Weight	62.1 kg (137.0 lb)	88.5 kg (195.0 lb)	98.4 kg (217.0 lb)
Inside Connection ⁽²⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #000	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0023 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.055 ohms	1.170 ohms
EXCITER 1 WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	28	140	6
No. & Size Wire	2 - #18	1 - #15.5	4 - #18
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	414.0 mm (16.3 inch)	406.4 mm (16.0 inch)
Copper Weight	3.1 kg (6.8 lb) 2.5 kg (5.4 lb)	4.7 kg (10.3 lb)	2.7 kg (6.0 lb)
Insulation	H. Polythermaleze		
Connection ⁽³⁾	6 Parallel Star	Series	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽²⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽³⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A**Note:** Specifications given are for manual rewind only.

Table 441

EXCITER 2 WINDING DATA		
Exciter Frequency (Hz)	90 Hz	
Exciter Poles	6	
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)
Coils/Group	1	2
Slots (Coils)	6	36
Turns (Coils)	125	6
No. & Size Wire	1 - # 15	4 - #18
Coil Throw	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	508.0 mm (20.0 inch)
Copper Weight	9.3 kg (20.4 lb)	3.4 kg (7.5 lb)
Insulation	H. Polythermaleze	
Connection ⁽²⁾	6 Parallel Star	2 Parallel Star
Line Leads	#14 1219.2 mm (48.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0063 Generator

Table 442

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	247.7 mm (9.75 inch)	247.7 mm (9.75 inch)	247.7 mm (9.75 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3	-	-
Turns/Pole	-	125	110
No. & Wire Size	9 - #14	5 - #14	1 - #7
Mean Length Turn	1188.7 mm (46.8 inch)	-	-
Copper Weight	34.8 kg (76.7 lb)	41.5 kg (91.6 lb)	37.9 kg (83.6 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	12 - #0	-	
Terminal bolt size	5/16 inch	-	
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0082 ohms.	-	
Field lead resistance at 25 ° C (77 ° F)	-	0.768 ohms	0.686 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	6
No. & Size Wire	2 - #17	1 - #15	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	457.2 mm (18.0 inch)	365.8 mm (14.4 inch)	355.6 mm (14.0 inch)
Copper Weight	6.4 kg (14.0 lb)	4.1 kg (8.5 lb)	3.4 kg (7.5 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #02⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A**Note:** Specifications given are for manual rewind only.

5N - 0064 Generator

Table 443

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.4 (2,2,2,3,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	12 - #14	5 - #13	1 - #7
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	43.2 kg (97.1 lb)	49.9 kg (110.0 lb)	44.9 kg (98.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0061 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.551 ohms	0.82 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0065 Generator

Table 444

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	83	110
No. & Wire Size	14 - #14	6 - #13	1 - #7
Mean Length Turn	1503.7 mm (59.2 inch)	-	-
Copper Weight	47.6 kg (105.0 lb)	54.0 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0050 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

(1) See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0066 Generator

Table 445

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)
Slots	60	-	-
Coil Throw	1-14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	100	110
No. & Wire Size	11 - #13	5 - #13	1 - #7
Mean Length Turn	1399.5 mm (55.1 inch)	-	-
Copper Weight	43.9 kg (97.0 lb)	49.9 kg (110.0 lb)	44.9 kg (98.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0047 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.551 ohms	0.820 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	19	4	
No. & Size Wire	1 - #16 1 - #17	4 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	406.4 mm (16.0 inch)	
Copper Weight	6.4 kg (14.0 lb)	3.4 kg (7.6 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

(1) See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 0067 Generator

Table 446

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	3	-	-
Turns/Pole	-	100	110
No. & Wire Size	12 - #15	5 - #13	1 - #7
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	43.7 kg (96.3 lb)	49.9 kg (110.0 lb)	44.9 kg (98.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0094 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.551 ohms	0.82 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0068 Generator

Table 447

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.4 (2,2,2,3,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	12 - #14	5 - #13	1 - #7
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	43.2 kg (97.1 lb)	49.9 kg (110.0 lb)	44.9 kg (98.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0061 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.551 ohms	0.82 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0069 Generator

Table 448

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 -13	-	-
Turns/Coil	1.8 (2,2,1,2,2)	-	-
Turns/Pole	-	83	110
No. & Wire Size	15 - #14	6 - #13	1 - #7
Mean Length Turn	1465.6 mm (57.7 inch)	-	-
Copper Weight	45.8 kg (101.0 lb)	52.9 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00418 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	19	4	
No. & Size Wire	1 - #16 1 - #17	4 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	406.4 mm (16.0 inch)	
Copper Weight	6.4 kg (14.0 lb)	3.4 kg (7.6 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-0070 Generator

Table 449

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.6 (2,2,3,3,3)	-	-
Turns/Pole	-	83	110
No. & Wire Size	13 - #15	6 - #13	1 - #7
Mean Length Turn	1452.9 mm (57.2 inch)	-	-
Copper Weight	44.9 kg (101.0 lb)	52.9 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0084 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N-0071 Generator

Table 450

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	83	110
No. & Wire Size	14 - #14	6 - #13	1 - #7
Mean Length Turn	1503.7 mm (59.2 inch)	-	-
Copper Weight	47.6 kg (105.0 lb)	54.0 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0050 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N-0072 Generator

Table 451

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3.4 (3,4,3,4,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	10 - #15	5 - #13	1 - #7
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	38.1 kg (84.0 lb)	44.8 kg (100.7 lb)	41.7kg (91.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #6	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0117 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.514 ohms	0.76 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (14 turns from T0).

Note: Specifications are given for manual rewind only.

5N-0073 Generator

Table 452

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.4 (2,3,2,3,2)	-	-
Turns/Pole	-	100	110
No. & Wire Size	12 - #14	5 - #13	1 - #7
Mean Length Turn	1226.8 mm (48.3 inch)	-	-
Copper Weight	39.6 kg (89.0 lb)	44.8 kg (100.7 lb)	41.7 kg (91.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0058 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.514 ohms	0.76 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	19	4	
No. & Size Wire	1 - #16 1 - #17	4 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	406.4 mm (16.0 inch)	
Copper Weight	6.4 kg (14.0 lb)	3.4 kg (7.6 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 0074 Generator

Table 453

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.8 (3,3,2,3,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	10 - #14	5 - #13	1 - #7
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	39.5 kg (87.0 lb)	45.7 kg (100.7 lb)	41.7 kg (91.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0078 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.514 ohms	0.76 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N-0075 Generator

Table 454

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.8 (3,3,2,3,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	10 - #14	5 - #13	1 - #7
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	39.5 kg (87.0 lb)	45.7 kg (100.7 lb)	41.7 kg (91.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0078 ohms.	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.514 ohms	0.76 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

i01313173

Winding Data for 5N-0076 Generator through 5N-0090 Generator

SMCS Code: 4450

5N-0076 Generator

Table 455

MAIN STATOR AND ROTOR WINDING DATA ⁽¹⁾			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	5.4 (5,6,5,6,5)	-	-
Turns/Pole	-	112	96
No. & Wire Size	3 - #14	4 - #15	1 - #9
Mean Length Turn	853.4 mm (33.6 inch)	-	-
Copper Weight	15.4 kg (34.7 lb)	17.7 kg (39.8 lb)	-
Inside Connection ⁽²⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #8	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0357 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.814 ohms	0.715 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	31.8 mm (1.25 inch)	31.8 mm (1.25 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	120	10	
No. & Size Wire	1 - #15	1 - #14 and 2 - #17	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	276.9 mm (10.9 inch)	215.9 mm (8.5 inch)	
Copper Weight	2.9 kg (6.5 lb)	2.3 kg (5.0 lb)	
Insulation	H. Polythermaleze		
Connection ⁽³⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #12 114.3 mm (4.5 inch)	

(1) Specifications given are for manual rewind only.

(2) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

(3) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-0077 Generator

Table 456

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	4.6(5,4,5,4,5)	-	-
Turns/Pole	-	112	96
No. & Wire Size	2 - #13 1 - #14	4 - #15	1 - #9
Mean Length Turn	853.4 mm (33.6 inch)	-	-
Copper Weight	11.3 kg (24.9 lb) 4.5 kg (9.9 lb)	18.1 kg (39.8 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #6	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0259 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.814 ohms	0.715 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	31.8 mm (1.25 inch)	31.8 mm (1.25 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	110	10	
No. & Size Wire	1 - #15	1 - #14 and 2 - #17	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	276.9 mm (10.9 inch)	215.9 mm (8.5 inch)	
Copper Weight	2.9 kg (6.5 lb)	2.3 kg (5.0 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #12 114.3 mm (4.5 inch)	

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N-0078 Generator

Table 457

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	5.4 (5,6,5,6,5)	-	-
Turns/Pole	-	112	96
No. & Wire Size	3 - #14	4 - #15	1 - #9
Mean Length Turn	853.4 mm (33.6 inch)	-	-
Copper Weight	15.4 kg (34.7 lb)	17.7 kg (39.8 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #8	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0357 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.814 ohms	0.715 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	31.8 mm (1.25 inch)	31.8 mm (1.25 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	120	10	
No. & Size Wire	1 - #15	1 - #14 and 2 - #17	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	276.9 mm (10.9 inch)	215.9 mm (8.5 inch)	
Copper Weight	2.9 kg (6.5 lb)	2.3 kg (5.0 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #12 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A**Note:** Specifications given are for manual rewind only.

5N-0079 Generator

Table 458

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)	177.8 mm (7.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	6.8(6,7,7,7,7)	-	-
Turns/Pole	-	112	96
No. & Wire Size	3 - #15	4 - #15	1 - #9
Mean Length Turn	858.5 mm (33.8 inch)	-	-
Copper Weight	15.4 kg (34.7 lb)	17.7 kg (39.8 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #10	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0567 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.814 ohms	0.715 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	31.8 mm (1.25 inch)	31.8 mm (1.25 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	120	10	
No. & Size Wire	1 - #15	1 - #14 and 2 - #17	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	276.9 mm (10.9 inch)	215.9 mm (8.5 inch)	
Copper Weight	2.9 kg (6.5 lb)	2.3 kg (5.0 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #12 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #05

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (27 turns from T0).

Note: Specifications given are for manual rewind only.

5N-0080 Generator

Table 459

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	4.2(4,4,4,4,5)	-	-
Turns/Pole	-	112	96
No. & Wire Size	3 - #15 2 - #16	4 - #15	1 - #9
Mean Length Turn	909.3 mm (35.8 inch)	-	-
Copper Weight	10.3 kg (22.8 lb) 5.5kg (12.1 lb)	19.7 kg (43.5 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #6	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0249 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.883 ohms	0.820 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR(FIELD)	ROTOR(ARMATURE)	
Stack Length	31.8 mm (1.25 inch)	31.8 mm (1.25 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	110	10	
No. & Size Wire	1 - #15	1 - #14 and 2 - #17	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	276.9 mm (10.9 inch)	215.9 mm (8.5 inch)	
Copper Weight	2.9 kg (6.5 lb)	2.3 kg (5.0 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #12 114.3 mm (4.5 inch)	

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A**Note:** Specifications given are for manual rewind only.

5N-0081 Generator

Table 460

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	4.8(5,5,5,5,4)	-	-
Turns/Pole	-	112	96
No. & Wire Size	4 - #16 1 - #15	4 - #15	1 - #9
Mean Length Turn	901.7 mm (35.5 inch)	-	-
Copper Weight	3.9 kg (8.6 lb) 12.4 kg (27.3 lb)	19.7 kg (43.5 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #6	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0304 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.883 ohms	0.820 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	31.8 mm (1.25 inch)	31.8 mm (1.25 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	120	10	
No. & Size Wire	1 - #15	1 - #14 and 2 - #17	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	276.9 mm (10.9 inch)	215.9 mm (8.5 inch)	
Copper Weight	2.9 kg (6.5 lb)	2.3 kg (5.0 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #12 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (24 turns from T0).

5N - 0082 Generator

Table 461

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	6	-	-
Turns/Pole	-	112	96
No. & Wire Size	4 - #16	4 - #13	1 - #9
Mean Length Turn	909.3 mm (35.8 inch)	-	-
Copper Weight	15.6 kg (34.3 lb)	19.7 kg (43.5 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	10 - #8	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0491 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.883 ohms	0.820 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	31.8 mm (1.25 inch)	31.8 mm (1.25 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	120	10	
No. & Size Wire	1 - #15	1 - #14 and 2 - #17	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	276.9 mm (10.9 inch)	215.9 mm (8.5 inch)	
Copper Weight	2.9 kg (6.5 lb)	2.3 kg (5.0 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #12 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #05⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A**Note:** Specifications given are for manual rewind only.

5N - 0083 Generator

Table 462

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)
Slots	60	-	-
Coil Throw	1-14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	100	110
No. & Wire Size	11 - #13	5 - #13	1 - #7
Mean Length Turn	1399.5 mm (55.1 inch)	-	-
Copper Weight	43.9 kg (97.0 lb)	49.9 kg (110.0 lb)	44.9 kg (98.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0047 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.551 ohms	0.820 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	19	4	
No. & Size Wire	1 - #16 and 1 - #17	4 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	406.4 mm (16.0 inch)	
Copper Weight	6.4 kg (14.0 lb)	3.4 kg (7.6 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 0084 Generator

Table 463

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.4 (2,2,2,3,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	12 - #14	5 - #13	1 - #7
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	43.2 kg (97.1 lb)	49.9 kg (110.0 lb)	44.9 kg (98.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0061 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.551 ohms	0.82 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A**Note:** Specifications given are for manual rewind only.

5N - 0085 Generator

Table 464

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	3	-	-
Turns/Pole	-	100	110
No. & Wire Size	12 - #15	5 - #13	1 - #7
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	43.7 kg (96.3 lb)	49.9 kg (110.0 lb)	44.9 kg (98.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0094 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.551 ohms	0.82 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N - 0086 Generator

Table 465

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.4 (2,2,2,3,3)	-	-
Turns/Pole	-	100	110
No. & Wire Size	12 - #14	5 - #13	1 - #7
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	43.2 kg (97.1 lb)	49.9 kg (110.0 lb)	44.9 kg (98.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0061 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.551 ohms	0.82 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A**Note:** Specifications given are for manual rewind only.

5N-0087 Generator

Table 466

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 -13	-	-
Turns/Coil	1.8 (2,2,1,2,2)	-	-
Turns/Pole	-	83	110
No. & Wire Size	15 - #14	6 - #13	1 - #7
Mean Length Turn	1465.6 mm (57.7 inch)	-	-
Copper Weight	45.8 kg (101.0 lb)	52.9 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00418 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	5	2	
Slots (Coils)	30	36	
Turns (Coils)	19	4	
No. & Size Wire	1 - #16 and 1 - #17	4 - #17	
Coil Throw	1 - 6	1 - 6	
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	406.4 mm (16.0 inch)	
Copper Weight	6.4 kg (14.0 lb)	3.4 kg (7.6 lb)	
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	6 - #10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 0088 Generator

Table 467

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	83	110
No. & Wire Size	14 - #14	6 - #13	1 - #7
Mean Length Turn	1503.7 mm (59.2 inch)	-	-
Copper Weight	47.6 kg (105.0 lb)	54.0 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0050 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A**Note:** Specifications given are for manual rewind only.

5N-0089 Generator

Table 468

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.6 (2,2,3,3,3)	-	-
Turns/Pole	-	83	110
No. & Wire Size	13 - #15	6 - #13	1 - #7
Mean Length Turn	1452.9 mm (57.2 inch)	-	-
Copper Weight	44.9 kg (101.0 lb)	52.9 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	1/4 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0084 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Specifications given are for manual rewind only.

5N-0090 Generator

Table 469

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	83	110
No. & Wire Size	14 - #14	6 - #13	1 - #7
Mean Length Turn	1503.7 mm (59.2 inch)	-	-
Copper Weight	47.6 kg (105.0 lb)	54.0 kg (119.0 lb)	49.1 kg (108.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	-	4 in Series
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	5/16 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0050 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.424 ohms	0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	DISTRIBUTED WINDING	SALIENT WINDING	ROTOR (ARMATURE)
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)
Coils/Group	5	1	2
Slots (Coils)	30	6	36
Turns (Coils)	21	105	4
No. & Size Wire	2 - #17	1 - #14.5	4 - #16
Coil Throw	1 - 6	1 - 2	1 - 6
Mean Length Turn (Calc.)	508.0 mm (20.0 inch)	449.6 mm (17.7 inch)	406.4 mm (16.0 inch)
Copper Weight	3.3 kg (7.5 lb)	4.3 kg (9.7 lb)	1.6 kg (3.6 lb)
Insulation	H. Polythermaleze		
Connection ⁽²⁾	Series	Series	2 Parallel Star
Line Leads	#14 914.4 mm (36.0 inch)	#14 965.2 mm (38.0 inch)	6 - #10 114.3 mm (4.5 inch)

⁽¹⁾ See Specification, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A**Note:** Specifications given are for manual rewind only.

i01313339

Winding Data for 5N-0431 Generator through 5N-7207 Generator

SMCS Code: 4450

5N-0431 Generator

Table 470

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	736.6 mm (29.0 inch)	749.3 mm (29.5 inch)	-
Slots	90	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2	-	-
Turns/Pole	-	147.5	-
No. & Wire Size	14 - #12	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	2336.8 mm (92.0 inch)	-	-
Copper Weight	179.9 kg (396.7 lb)	419.6 kg (925.1 lb)	-
Inside Connection ⁽¹⁾	6 Parallel Star	6 in Series	-
Line Leads (No. & Size)	24 - #1	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0043 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.162 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		

(continued)

(Table 470, contd)

Connection ⁽²⁾	Series	2 Parallel Star
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #40

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N - 4999 Generator

Table 471

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	110	-
No. & Wire Size	14 - #14	1 - #7	-
Mean Length Turn	1503.7 mm (59.2 inch)	-	-
Copper Weight	49.2 kg (108.5 lb)	49.1 kg (108.3 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0048 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.895 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 114.3 mm (4.5 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 5000 Generator

Table 472

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.6(2,2,3,3,3)	-	-
Turns/Pole	-	110	-
No. & Wire Size	13 - #15	1 - #7	-
Mean Length Turn	1452.9 mm (57.2 inch)	-	-
Copper Weight	45.5 kg (100.4 lb)	49.1 kg (108.3 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0081 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.895 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (14 turns from T0).

5N-5001 Generator

Table 473

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	110	-
No. & Wire Size	14 - #14	1 - #7	-
Mean Length Turn	1503.7 mm (59.2 inch)	-	-
Copper Weight	49.2 kg (108.5 lb)	49.1 kg (108.3 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0048 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.895 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 114.3 mm (4.5 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-5005 Generator

Table 474

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	406.4 mm (16.0 inch)	424.2 mm (16.7 inch)	-
Slots	72	-	-
Coil Throw	1 - 15	-	-
Turns/Coil	2	-	-
Turns/Pole	-	174	-
No. & Wire Size	14 - #12	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	1915.2 mm (75.4 inch)	-	-
Copper Weight	115.8 kg (255.2 lb)	237.7 kg (524.0 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	16 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0045 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.686 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-5006 Generator

Table 475

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	406.4 mm (16.0 inch)	424.2 mm (16.7 inch)	-
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2.5(2,3,2,3,2,3)	-	-
Turns/Pole	-	174	-
No. & Wire Size	14 - #13	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	1846.6 mm (72.7 inch)	-	-
Copper Weight	110.6 kg (243.9 lb)	237.7 kg (524.0 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	16 - #1	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0068 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.686 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-5007 Generator

Table 476

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	406.4 mm (16.0 inch)	424.2 mm (16.7 inch)	-
Slots	72	-	-
Coil Throw	1 - 15	-	-
Turns/Coil	2	-	-
Turns/Pole	-	174	-
No. & Wire Size	14 - #12	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	1915.2 mm (75.4 inch)	-	-
Copper Weight	115.8 kg (255.2 lb)	237.7 kg (524 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	16 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0045 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.686 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-5008 Generator

Table 477

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	406.4 mm (16.0 inch)	424.2 mm (16.7 inch)	-
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2.5(2,3,2,3,2,3)	-	-
Turns/Pole	-	174	-
No. & Wire Size	14 - #13	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	1846.6 mm (72.7 inch)	-	-
Copper Weight	110.6 kg (243.9 lb)	237.7 kg (524.0 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	16 - #1	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0068 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.686 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-5026 Generator

Table 478

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	424.2 mm (16.7 inch)	431.8 mm (17.0 inch)	-
Slots	84	-	-
Coil Throw	1 - 19	-	-
Turns/Coil	1	-	-
Turns/Pole	-	160	-
No. & Wire Size	18 - #13	1 - #7 sq	-
Mean Length Turn	1724.7 mm (67.9 inch)	-	-
Copper Weight	63.5 kg (139.9 lb)	98.5 kg (217.1 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0023 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.17 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	6	
No. & Size Wire	1 - #15	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 7064 Generator

Table 479

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	215.9 mm (8.5 inch)	215.9 mm (8.5 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3	-	-
Turns/Pole	-	160	-
No. & Wire Size	9 - #13	1 - #7 sq	-
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	46.7 kg (103.0 lb)	69.3 kg (152.7 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #1	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0278 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.829 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #02

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 7065 Generator

Table 480

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	215.9 mm (8.5 inch)	215.9 mm (8.5 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3.8(3,4,4,4,4)	-	-
Turns/Pole	-	160	-
No. & Wire Size	9 - #14	1 - #7 sq	-
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	46.9 kg (103.6 lb)	69.3 kg (152.7 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0111 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.829 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 7066 Generator

Table 481

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	266.7 mm (10.5 inch)	266.7 mm (10.5 inch)	-
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	160	-
No. & Wire Size	11 - #13	1 - #7 sq	-
Mean Length Turn	1270.0 mm (50.0 inch)	-	-
Copper Weight	50.8 kg (112.0 lb)	76.7 kg (169.1 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #1	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.005 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.916 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-7067 Generator

Table 482

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	266.7 mm (10.5 inch)	266.7 mm (10.5 inch)	-
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2.5(2,3,2,3,2,3)	-	-
Turns/Pole	-	160	-
No. & Wire Size	9 - #13	1 - #7 sq	-
Mean Length Turn	1270.0 mm (50.0 inch)	-	-
Copper Weight	51.7 kg (114.0 lb)	76.7 kg (169.1 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0076 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.916 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (14 turns from T0).

5N - 7068 Generator

Table 483

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	289.6 mm (11.4 inch)	289.6 mm (11.4 inch)	-
Slots	66 ⁽¹⁾	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	1	-	-
Turns/Pole	-	160	-
No. & Wire Size	25 - #13	1 - #7	-
Mean Length Turn	1374.1 mm (54.1 inch)	-	-
Copper Weight	52.8 kg (116.5 lb)	77.2 kg (170.2 lb)	-
Inside Connection ⁽²⁾	4 in Series	4 in Series	-
Line Leads (No. & Size)	20 - #1	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0041 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.966 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽³⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

(1) Wind 6 coil groups with 5 coils per group, wind 6 coil groups with 6 coils per group. Put coil groups in stator (5,6,5,6-etc).

(2) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #34

(3) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-7069 Generator

Table 484

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	289.6 mm (11.4 inch)	289.6 mm (11.4 inch)	-
Slots	84	-	-
Coil Throw	1 - 17	-	-
Turns/Coil	2	-	-
Turns/Pole	-	160	-
No. & Wire Size	10 - #13	1 - #7	-
Mean Length Turn	1501.1 mm (59.1 inch)	-	-
Copper Weight	57.6 kg (126.9 lb)	77.2 kg (170.2 lb)	-
Inside Connection ⁽²⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	10 - #0000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0072 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.966 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽³⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽²⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #37

⁽³⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20 and 22 are brought out as tap connections between the 5th and 6th coil (10 turns from T0).

Note: Wire 24 is brought out as a tap connection between the 6th and 7th coil (12 turns from T0).

5N-7070 Generator

Table 485

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	424.2 mm (16.7 inch)	431.8 mm (17.0 inch)	-
Slots	84	-	-
Coil Throw	1 - 19	-	-
Turns/Coil	1	-	-
Turns/Pole	-	160	-
No. & Wire Size	18 - #13	1 - #7 sq	-
Mean Length Turn	1724.7 mm (67.9 inch)	-	-
Copper Weight	63.5 kg (139.9 lb)	98.5 kg (217.1 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0023 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.17 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	6	
No. & Size Wire	1 - #15	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-7071 Generator

Table 486

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	424.2 mm (16.7 inch)	431.8 mm (17.0 inch)	-
Slots	54 ⁽¹⁾	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	1	-	-
Turns/Pole	-	160	-
No. & Wire Size	30 - #13	1 - #7 sq	-
Mean Length Turn	1714.5 mm (67.5 inch)	-	-
Copper Weight	64.2 kg (141.5 lb)	98.4744 kg (217.1 lb)	-
Inside Connection ⁽²⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0033 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.17 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	6	
No. & Size Wire	1 - #15	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽³⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

(1) Wind 6 coil groups with 4 coils per group, wind 6 coil groups with 5 coils per group. Put coil groups in stator (4,5,4,5-etc).

(2) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

(3) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-7200 Generator

Table 487

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	467.4 mm (18.4 inch)	480.1 mm (18.9 inch)	-
Slots	72	-	-
Coil Throw	1 - 11	-	-
Turns/Coil	2	-	-
Turns/Pole	-	147.5	-
No. & Wire Size	20 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1772.9 mm (69.8 inch)	-	-
Copper Weight	121.5 kg (267.9 lb)	237.0 kg (522.6 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0065 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.126 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7201 Generator

Table 488

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	467.4 mm (18.4 inch)	480.1 mm (18.9 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	2.75(3,3,3,2)	-	-
Turns/Pole	-	154.6	-
No. & Wire Size	14 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1704.3 mm (67.1 inch)	-	-
Copper Weight	112.4 kg (247.8 lb)	237.0 kg (522.6 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #0	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0122 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.126 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7202 Generator

Table 489

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	467.4 mm (18.4 inch)	480.1 mm (18.9 inch)	-
Slots	72	-	-
Coil Throw	1 - 11	-	-
Turns/Coil	2	-	-
Turns/Pole	-	147.5	-
No. & Wire Size	20 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1772.9 mm (69.8 inch)	-	-
Copper Weight	121.5 kg (267.9 lb)	237.0 kg (522.6 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0065 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.126 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7203 Generator

Table 490

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	467.4 mm (18.4 inch)	480.1 mm (18.9 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	2.75(3,3,3,2)	-	-
Turns/Pole	-	154.6	-
No. & Wire Size	14 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1704.3 mm (67.1 inch)	-	-
Copper Weight	112.4 kg (247.8 lb)	237.0 kg (522.6 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #0	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0122 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.126 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7204 Generator

Table 491

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	269.2 mm (10.6 inch)	281.9 mm (11.1 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	3.5(3,4,3,4)	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	12 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1308.1 mm (51.5 inch)	-	-
Copper Weight	94.1 kg (207.5 lb)	168.9 kg (372.5 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0139 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.802 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7205 Generator

Table 492

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	269.2 mm (10.6 inch)	281.9 mm (11.1 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	4.5(4,5,4,5)	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	9 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1308.1 mm (51.5 inch)	-	-
Copper Weight	90.8 kg (200.1 lb)	168.9 kg (372.5 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0239 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.802 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N - 7206 Generator

Table 493

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	269.2 mm (10.6 inch)	281.9 mm (11.1 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	3.5(3,4,3,4)	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	12 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1308.1 mm (51.5 inch)	-	-
Copper Weight	94.1 kg (207.5 lb)	168.9 kg (372.5 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0139 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.802 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7207 Generator

Table 494

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	269.2 mm (10.6 inch)	281.9 mm (11.1 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	4.5(4,5,4,5)	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	9 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1308.1 mm (51.5 inch)	-	-
Copper Weight	90.8 kg (200.1 lb)	168.9 kg (372.5 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0239 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.802 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

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Winding Data for 5N-7208 Generator through 5N-7232 Generator

SMCS Code: 4450

5N-7208 Generator

Table 495

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	419.1 mm (16.5 inch)	431.8 mm (17.0 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	2.5(2,3,2,3)	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	17 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1607.8 mm (63.3 inch)	-	-
Copper Weight	115.7 kg (255.0 lb)	220.3 kg (485.7 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 °C (77 °F)	0.0087 ohms	-	-
Field lead resistance at 25 °C (77 °F)	-	1.046 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7209 Generator

Table 496

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	419.1 mm (16.5 inch)	431.8 mm (17.0 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	3	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	14 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1607.8 mm (63.3 inch)	-	-
Copper Weight	115.7 kg (255.0 lb)	220.3 kg (485.7 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #1	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0126 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.046 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7210 Generator

Table 497

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	419.1 mm (16.5 inch)	431.8 mm (17.0 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	2.5 (2,3,2,3)	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	17 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1607.8 mm (63.3 inch)	-	-
Copper Weight	115.7 kg (255.0 lb)	220.3 kg (485.7 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0087 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.046 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7211 Generator

Table 498

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	419.1 mm (16.5 inch)	431.8 mm (17.0 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	3	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	14 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1607.8 mm (63.3 inch)	-	-
Copper Weight	115.7 kg (255.0 lb)	220.3 kg (485.7 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #1	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0126 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.046 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7212 Generator

Table 499

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	487.7 mm (19.2 inch)	500.4 mm (19.7 inch)	-
Slots	90	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	3	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	11 - #12	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	1981.2 mm (78.0 inch)	-	-
Copper Weight	192.5 kg (424.3 lb)	312.7 kg (689.3 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	12 - #0000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0049 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.866 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #14⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7213 Generator

Table 500

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	487.7 mm (19.2 inch)	500.4 mm (19.7 inch)	-
Slots	90	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	3.8 (4,4,4,4,3)	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	12 - #13	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	1981.2 mm (78.0 inch)	-	-
Copper Weight	193.3 kg (426.2 lb)	312.7 kg (689.3 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	12 - #000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0072 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.866 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #14

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7214 Generator

Table 501

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	487.7 mm (19.2 inch)	500.4 mm (19.7 inch)	-
Slots	90	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	3	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	11 - #12	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	1981.2 mm (78.0 inch)	-	-
Copper Weight	192.5 kg (424.3 lb)	312.7 kg (689.3 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	12 - #0000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0049 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.866 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #14⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7215 Generator

Table 502

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	487.7 mm (19.2 inch)	500.4 mm (19.7 inch)	-
Slots	90	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	3.8 (4,4,4,4,3)	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	12 - #13	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	1981.2 mm (78.0 inch)	-	-
Copper Weight	193.3 kg (426.2 lb)	312.7 kg (689.3 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	12 - #000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0072 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.866 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #14

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7216 Generator

Table 503

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	386.1 mm (15.2 inch)	396.2 mm (15.6 inch)	396.2 mm (15.6 inch)
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	3	-	-
Turns/Pole	-	110	128
No. & Wire Size	9 - #13	4 - #12	1 - #7 sq
Mean Length Turn	1419.9 mm (55.9 inch)	-	-
Copper Weight	65.6 kg (144.7 lb)	91.7 kg (202.1 lb)	105.9 kg (233.4 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	6 in Series
Line Leads (No. & Size)	30 - #4	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0173 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.039 ohms	1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7217 Generator

Table 504

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	386.1 mm (15.2 inch)	396.2 mm (15.6 inch)	396.2 mm (15.6 inch)
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	3.75 (3,4,4,4)	-	-
Turns/Pole	-	110	128
No. & Wire Size	9 - #14	4 - #12	1 - #7 sq
Mean Length Turn	1419.9 mm (55.9 inch)	-	-
Copper Weight	65.0 kg (143.4 lb)	91.7 kg (202.1 lb)	105.9 kg (233.4 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	6 in Series
Line Leads (No. & Size)	30 - #4	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0273 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.039 ohms	1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #17

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7218 Generator

Table 505

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	386.1 mm (15.2 inch)	396.2 mm (15.6 inch)	396.2 mm (15.6 inch)
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	3	-	-
Turns/Pole	-	110	128
No. & Wire Size	9 - #13	4 - #12	1 - #7 sq
Mean Length Turn	1419.9 mm (55.9 inch)	-	-
Copper Weight	65.6 kg (144.7 lb)	91.7 kg (202.1 lb)	105.9 kg (233.4 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	6 in Series
Line Leads (No. & Size)	30 - #4	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0173 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.039 ohms	1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7219 Generator

Table 506

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	386.1 mm (15.2 inch)	396.2 mm (15.6 inch)	396.2 mm (15.6 inch)
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	3.75 (3,4,4,4)	-	-
Turns/Pole	-	110	128
No. & Wire Size	9 - #14	4 - #12	1 - #7 sq
Mean Length Turn	1419.9 mm (55.9 inch)	-	-
Copper Weight	65.0 kg (143.4 lb)	91.7 kg (202.1 lb)	105.9 kg (233.4 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	6 in Series
Line Leads (No. & Size)	30 - #4	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0273 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.039 ohms	1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #17

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7220 Generator

Table 507

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	520.7 mm (20.5 inch)	538.5 mm (21.2 inch)	-
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	1.5(1,2,1,2,1,2)	-	-
Turns/Pole	-	174	-
No. & Wire Size	18 - #12	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	2075.2 mm (81.7 inch)	-	-
Copper Weight	122.9 kg (270.9 lb)	275.5 kg (607.4 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	16 - #0000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0028 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.795 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7221 Generator

Table 508

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	520.7 mm (20.5 inch)	538.5 mm (21.2 inch)	-
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	174	-
No. & Wire Size	14 - #12	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	2075.2 mm (81.7 inch)	-	-
Copper Weight	127.5 kg (281.0 lb)	275.5 kg (607.4 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	16 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0048 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.795 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7222 Generator

Table 509

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	520.7 mm (20.5 inch)	538.5 mm (21.2 inch)	-
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	1.5(1,2,1,2,1,2)	-	-
Turns/Pole	-	174	-
No. & Wire Size	18 - #12	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	2075.2 mm (81.7 inch)	-	-
Copper Weight	122.9 kg (270.9 lb)	275.5 kg (607.4 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	16 - #0000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0028 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.795 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7223 Generator

Table 510

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	520.7 mm (20.5 inch)	538.5 mm (21.2 inch)	-
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	174	-
No. & Wire Size	14 - #12	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	2075.2 mm (81.7 inch)	-	-
Copper Weight	127.5 kg (281.0 lb)	275.5 kg (607.4 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	16 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0048 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.795 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7224 Generator

Table 511

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	342.9 mm (13.5 inch)	355.6 mm (14.0 inch)	-
Slots	96	-	-
Coil Throw	1 - 19	-	-
Turns/Coil	1	-	-
Turns/Pole	-	203	-
No. & Wire Size	22 - #13	1 - #6 sq	-
Mean Length Turn	1742.4 mm (68.6 inch)	-	-
Copper Weight	90.5 kg (199.5 lb)	144.2 kg (317.8 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	40 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0087 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.08 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #07⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7225 Generator

Table 512

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	342.9 mm (13.5 inch)	355.6 mm (14.0 inch)	-
Slots	84	-	-
Coil Throw	1 - 18	-	-
Turns/Coil	1.43 (1,1,2,2,2,1,1)	-	-
Turns/Pole	-	203	-
No. & Wire Size	20 - #14	1 - #6 sq	-
Mean Length Turn	1757.7 mm (69.2 inch)	-	-
Copper Weight	86.7 kg (191.2 lb)	144.2 kg (317.8 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0041 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.08 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #57

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7226 Generator

Table 513

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	342.9 mm (13.5 inch)	355.6 mm (14.0 inch)	-
Slots	96	-	-
Coil Throw	1 - 19	-	-
Turns/Coil	1	-	-
Turns/Pole	-	203	-
No. & Wire Size	22 - #13	1 - #6 sq	-
Mean Length Turn	1742.4 mm (68.6 inch)	-	-
Copper Weight	90.5 kg (199.5 lb)	144.2 kg (317.8 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	40 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0087 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.08 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #07⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7227 Generator

Table 514

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	342.9 mm (13.5 inch)	355.6 mm (14.0 inch)	-
Slots	84	-	-
Coil Throw	1 - 18	-	-
Turns/Coil	1.43 (1,1,2,2,2,1,1)	-	-
Turns/Pole	-	203	-
No. & Wire Size	20 - #14	1 - #6 sq	-
Mean Length Turn	1757.7 mm (69.2 inch)	-	-
Copper Weight	86.7 kg (191.2 lb)	144.2 kg (317.8 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0041 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.08 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #57

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7228 Generator

Table 515

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	304.8 mm (12.0 inch)	-
Slots	72	-	-
Coil Throw	1 - 11	-	-
Turns/Coil	3.25 (3,3,3,4)	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	12 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1422.4 mm (56.0 inch)	-	-
Copper Weight	95.1 kg (209.6 lb)	176.8 kg (389.8 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #1	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0141 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.839 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7229 Generator

Table 516

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	304.8 mm (12.0 inch)	-
Slots	72	-	-
Coil Throw	1 - 11	-	-
Turns/Coil	4	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	12 - #14	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1422.4 mm (56.0 inch)	-	-
Copper Weight	92.8 kg (204.6 lb)	176.8 kg (389.8 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0219 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.839 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7230 Generator

Table 517

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	304.8 mm (12.0 inch)	-
Slots	72	-	-
Coil Throw	1 - 11	-	-
Turns/Coil	3.25 (3,3,3,4)	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	12 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1422.4 mm (56.0 inch)	-	-
Copper Weight	95.1 kg (209.6 lb)	176.8 kg (389.8 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #1	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0141 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.839 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7231 Generator

Table 518

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	304.8 mm (12.0 inch)	-
Slots	72	-	-
Coil Throw	1 - 11	-	-
Turns/Coil	4	-	-
Turns/Pole	-	154.5	-
No. & Wire Size	12 - #14	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1422.4 mm (56.0 inch)	-	-
Copper Weight	92.8 kg (204.6 lb)	176.8 kg (389.8 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0219 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.839 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7232 Generator

Table 519

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	584.2 mm (23.0 inch)	596.9 mm (23.5 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	3	-	-
Turns/Pole	-	147.5	-
No. & Wire Size	11 - #12	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	2001.5 mm (78.8 inch)	-	-
Copper Weight	140.9 kg (310.8 lb)	348.7 kg (768.7 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	12 - #0000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.004 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.98 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

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Winding Data for 5N-7233 Generator through 5N-7309 Generator

SMCS Code: 4450

5N-7233 Generator

Table 520

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	584.2 mm (23.0 inch)	596.9 mm (23.5 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	3.75 (3,4,4,4)	-	-
Turns/Pole	-	147.5	-
No. & Wire Size	11 - #13	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	2001.5 mm (78.8 inch)	-	-
Copper Weight	138.2 kg (304.6 lb)	348.7 kg (768.7 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	12 - #000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0062 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.98 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		

(continued)

(Table 520, contd)

Connection ⁽²⁾	Series	2 Parallel Star
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7234 Generator

Table 521

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	584.2 mm (23.0 inch)	596.9 mm (23.5 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	3	-	-
Turns/Pole	-	147.5	-
No. & Wire Size	11 - #12	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	2001.5 mm (78.8 inch)	-	-
Copper Weight	140.9 kg (310.8 lb)	348.7 kg (768.7 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	12 - #0000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.004 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.98 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7235 Generator

Table 522

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	584.2 mm (23.0 inch)	596.9 mm (23.5 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	3.75(3,4,4,4)	-	-
Turns/Pole	-	147.5	-
No. & Wire Size	11 - #13	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	2001.5 mm (78.8 inch)	-	-
Copper Weight	138.2 kg (304.6 lb)	348.7 kg (768.7 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	12 - #000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0062 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.98 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	1 - #18 and 2 - #17	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 762.0 mm (30.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #14⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7236 Generator

Table 523

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	584.2 mm (23.0 inch)	596.9 mm (23.5 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	3.75(3,4,4,4)	-	-
Turns/Pole	-	147.5	-
No. & Wire Size	11 - #13	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	2001.5 mm (78.8 inch)	-	-
Copper Weight	138.2 kg (304.6 lb)	348.7 kg (768.7 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	12 - #000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0062 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.98 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	320	8	
No. & Size Wire	2 - #18.5	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #14

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram G

5N-7237 Generator

Table 524

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	467.4 mm (18.4 inch)	480.1 mm (18.9 inch)	-
Slots	72	-	-
Coil Throw	1 - 10	-	-
Turns/Coil	2.75(3,3,3,2)	-	-
Turns/Pole	-	154.6	-
No. & Wire Size	14 - #13	1 - 3.3 mm x 6.4 mm (.13 inch x .25 inch)	-
Mean Length Turn	1704.3 mm (67.1 inch)	-	-
Copper Weight	112.4 kg (247.8 lb)	237.0 kg (522.6 lb)	-
Inside Connection ⁽¹⁾	6/3 Parallel Star	6 in Series	-
Line Leads (No. & Size)	30 - #0	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0122 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.126 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	320	8	
No. & Size Wire	2 - #18.5	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #38⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram G

5N - 7238 Generator

Table 525

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	736.6 mm (29.0 inch)	749.3 mm (29.5 inch)	-
Slots	90	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.4(2,3,2,3,2)	-	-
Turns/Pole	-	147.5	-
No. & Wire Size	15 - #13	1 - 3.66 mm x 7.32 mm (.144 inch x .288 inch)	-
Mean Length Turn	2336.8 mm (92.0 inch)	-	-
Copper Weight	179.9 kg (396.7 lb)	419.6 kg (925.1 lb)	-
Inside Connection ⁽¹⁾	6 Parallel Star	6 in Series	-
Line Leads (No. & Size)	24 - #1	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0043 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.162 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	320	8	
No. & Size Wire	2 - #18.5	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	6.4 kg (14.0 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #40

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram G

5N-7240 Generator

Table 526

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	424.2 mm (16.7 inch)	431.8 mm (17.0 inch)	-
Slots	84	-	-
Coil Throw	1 - 19	-	-
Turns/Coil	1	-	-
Turns/Pole	-	160	-
No. & Wire Size	18 - #13	1 - #7 sq	-
Mean Length Turn	1724.7 mm (67.9 inch)	-	-
Copper Weight	63.5 kg (139.9 lb)	98.5 kg (217.1 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0023 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.17 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	6	
No. & Size Wire	1 - #15	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	965.2 mm (38.0 inch)	152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-7241 Generator

Table 527

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	424.2 mm (16.7 inch)	431.8 mm (17.0 inch)	-
Slots	54 ⁽¹⁾	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	1	-	-
Turns/Pole	-	160	-
No. & Wire Size	30 - #13	1 - #7 sq	-
Mean Length Turn	1648.5 mm (64.9 inch)	-	-
Copper Weight	64.2 kg (141.5 lb)	98.5 kg (217.1 lb)	-
Inside Connection ⁽²⁾	4 in Series	4 in Series	-
Line Leads (No. & Size)	20 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0033 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.17 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	6	
No. & Size Wire	1 - #15	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽³⁾	Series	2 Parallel Star	
Line Leads	965.2 mm (38.0 inch)	152.4 mm (6.0 inch)	

⁽¹⁾ Wind 6 coil groups with 4 coils per group and 6 coil groups with 5 coils per group. Put coil groups in stator (5,6,5,6-etc.).

⁽²⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #36

⁽³⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 9th and 10th coil (9 turns from T0).

5N-7242 Generator

Table 528

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	424.2 mm (16.7 inch)	431.8 mm (17.0 inch)	-
Slots	84	-	-
Coil Throw	1 - 19	-	-
Turns/Coil	1	-	-
Turns/Pole	-	160	-
No. & Wire Size	18 - #13	1 - #7 sq	-
Mean Length Turn	1724.7 mm (67.9 inch)	-	-
Copper Weight	63.5 kg (139.9 lb)	98.5 kg (217.1 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0023 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.17 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7243 Generator

Table 529

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	424.2 mm (16.7 inch)	431.8 mm (17.0 inch)	-
Slots	54 ⁽¹⁾	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	1	-	-
Turns/Pole	-	160	-
No. & Wire Size	30 - #13	1 - #7 sq	-
Mean Length Turn	1648.5 mm (64.9 inch)	-	-
Copper Weight	64.2 kg (141.5 lb)	98.5 kg (217.1 lb)	-
Inside Connection ⁽²⁾	4in Series	4 in Series	-
Line Leads (No. & Size)	20 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0033 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.17 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽³⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

(1) Wind 6 coil groups with 4 coils per group and 6 coil groups with 5 coils per group. Put loil groups in stator (4,5,4,5-etc).

(2) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #35

(3) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N - 7244 Generator

Table 530

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	482.6 mm (19.0 inch)	431.8 mm (17.0 inch)	-
Slots	72	-	-
Coil Throw	1 - 15	-	-
Turns/Coil	1	-	-
Turns/Pole	-	160	-
No. & Wire Size	27 - #13	1 - #7 sq	-
Mean Length Turn	1963.4 mm (77.3 inch)	-	-
Copper Weight	89.9 kg (198.3 lb)	177.3 kg (390.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	40 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.006 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.31 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	6	
No. & Size Wire	1 - #15	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	965.2 mm (38.0 inch)	152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #39⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 7245 Generator

Table 531

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	482.6 mm (19.0 inch)	495.3 mm (19.5 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	1.6(2,1,2,1,2)	-	-
Turns/Pole	-	200	-
No. & Wire Size	28 - #14	1 - #6 sq	-
Mean Length Turn	1935.5 mm (76.2 inch)	-	-
Copper Weight	98.2 kg (216.4 lb)	177.3 kg (390.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	40 - #1	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0024 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.31 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	6	
No. & Size Wire	1 - #15	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	965.2 mm (38.0 inch)	152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #23

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (6 turns from T0).

5N-7246 Generator

Table 532

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	482.6 mm (19.0 inch)	495.3 mm (19.5 inch)	-
Slots	72	-	-
Coil Throw	1 - 15	-	-
Turns/Coil	1	-	-
Turns/Pole	-	200	-
No. & Wire Size	27 - #13	1 - #6 sq	-
Mean Length Turn	1963.4 mm (77.3 inch)	-	-
Copper Weight	89.9 kg (198.3 lb)	177.3 kg (390.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	40 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.006 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.31 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #39

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7247 Generator

Table 533

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	482.6 mm (19.0 inch)	495.3 mm (19.5 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	1.6(2,1,2,1,2)	-	-
Turns/Pole	-	200	-
No. & Wire Size	28 - #14	1 - #6 sq	-
Mean Length Turn	1935.5 mm (76.2 inch)	-	-
Copper Weight	98.2 kg (216.4 lb)	177.3 kg (390.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	40 - #1	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0024 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.31 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 3048.0 mm (120.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #07

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N - 7248 Generator

Table 534

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	685.8 mm (27.0 inch)	698.5 mm (27.5 inch)	-
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	1.5(1,2,1,2,1,2)	-	-
Turns/Pole	-	168	-
No. & Wire Size	18 - #13	1 - #5 sq	-
Mean Length Turn	2303.8mm (90.7 inch)	-	-
Copper Weight	107.8kg (237.6 lb)	225.9 kg (498.0 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	16 - #0000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.00395	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.135	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0000 mm (5.0 inch)	127.0000 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	6	
No. & Size Wire	1 - #15	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-7249 Generator

Table 535

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	685.8 mm (27.0 inch)	698.5 mm (27.5 inch)	-
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	168	-
No. & Wire Size	20 - #14	1 - #5 sq	-
Mean Length Turn	2331.7 mm (91.8 inch)	-	-
Copper Weight	126.6 kg (279.1 lb)	225.9 kg (498.0 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	16 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.00605	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.135	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0000 mm (5.0 inch)	127.0000 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	6	
No. & Size Wire	1 - #15	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	3 - #10 152.4 mm (6.0 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

5N-7250 Generator

Table 536

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	685.8 mm (27.0 inch)	698.5 mm (27.5 inch)	-
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	1.5(1,2,1,2,1,2)	-	-
Turns/Pole	-	168	-
No. & Wire Size	18 - #13	1 - #5 sq	-
Mean Length Turn	2303.8mm (90.7 inch)	-	-
Copper Weight	107.8kg (237.6 lb)	225.9 kg (498.0 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	16 - #0000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.00395	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.135	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	2 - # 16.5	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 1828.8 mm (72.0 inch)	#10 304.8 mm (12.0 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7251 Generator

Table 537

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	685.8 mm (27.0 inch)	698.5 mm (27.5 inch)	-
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	168	-
No. & Wire Size	20 - #14	1 - #5 sq	-
Mean Length Turn	2331.7 mm (91.8 inch)	-	-
Copper Weight	126.6 kg (279.1 lb)	225.9 kg (498.0 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	16 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.00605	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.135	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	88.9 mm (3.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	8	
No. & Size Wire	2 - # 16.5	3 - #16	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	436.9 mm (17.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	13.6 kg (29.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 1828.8 mm (72.0 inch)	#10 304.8 mm (12.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N - 7256 Generator

Table 538

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	596.9 mm (23.5 inch)	614.7 mm (24.2 inch)	-
Slots	84	-	-
Coil Throw	1 - 18	-	-
Turns/Coil	1	-	-
Turns/Pole	-	174	-
No. & Wire Size	20 - #12	1 - 3.66 mm x7.32mm (.144 inch x .288 inch)	-
Mean Length Turn	2329.2 mm (91.7 inch)	-	-
Copper Weight	117.5 kg (259.0 lb)	298.9 kg (659.0 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	32 - #0	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0022	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.863	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - # 16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	347.9 mm (13.7 inch)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 1828.8 mm (72.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N-7257 Generator

Table 539

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	596.9 mm (23.5 inch)	614.7 mm (24.2 inch)	-
Slots	84	-	-
Coil Throw	1 - 18	-	-
Turns/Coil	1.43 (1,1,2,2,2,1,1)	-	-
Turns/Pole	-	174	-
No. & Wire Size	20 - #13	1 - 3.66 mm x7.32mm (.144 inch x .288 inch)	-
Mean Length Turn	2402.8 mm (94.6 inch)	-	-
Copper Weight	137.4 kg (303.0 lb)	298.9 kg (659.0 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	16 - #0000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0041	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.863	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - # 16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	347.9 mm (13.7 inch)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 1828.8 mm (72.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N - 7258 Generator

Table 540

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	596.9 mm (23.5 inch)	614.7 mm (24.2 inch)	-
Slots	84	-	-
Coil Throw	1 - 18	-	-
Turns/Coil	1	-	-
Turns/Pole	-	174	-
No. & Wire Size	20 - #12	1 - 3.66 mm x7.32mm (.144 inch x .288 inch)	-
Mean Length Turn	2329.2 mm (91.7 inch)	-	-
Copper Weight	117.5 kg (259.0 lb)	298.9 kg (659.0 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	32 - #0	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0022	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.863	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - # 16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	347.9 mm (13.7 inch)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 1828.8 mm (72.0 inch)	#10 152.4 mm (6.0 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N - 7259 Generator

Table 541

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	596.9 mm (23.5 inch)	614.7 mm (24.2 inch)	-
Slots	84	-	-
Coil Throw	1 - 18	-	-
Turns/Coil	1.43 (1,1,2,2,2,1,1)	-	-
Turns/Pole	-	174	-
No. & Wire Size	20 - #13	1 - 3.66 mm x7.32mm (.144 inch x .288 inch)	-
Mean Length Turn	2402.8 mm (94.6 inch)	-	-
Copper Weight	137.4 kg (303.0 lb)	298.9 kg (659.0 lb)	-
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	-
Line Leads (No. & Size)	16 - #0000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0041	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.863	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	2 - #16.5	3 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	10.0 kg (22.1 lb)	347.9 mm (13.7 inch)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 1828.8 mm (72.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

5N - 7308 Generator

Table 542

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	424.2 mm (16.7 inch)	431.8 mm (17.0 inch)	-
Slots	54 ⁽¹⁾	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	1	-	-
Turns/Pole	-	160	-
No. & Wire Size	30 - #13	1 - #7 sq	-
Mean Length Turn	1714.5 mm (67.5 inch)	-	-
Copper Weight	64.2 kg (141.5 lb)	98.4744 kg (217.1 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0033	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.17	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0000 mm (5.0 inch)	127.0000 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	6	
No. & Size Wire	1 - #15	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

(1) Wind 6 coil groups with 4 coils per group, wind 6 coil groups with 5 coils per group. Put coil groups in stator (4,5,4,5-etc).

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-7309 Generator

Table 543

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	424.2 mm (16.7 inch)	431.8 mm (17.0 inch)	-
Slots	54 ⁽¹⁾	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	1	-	-
Turns/Pole	-	160	-
No. & Wire Size	30 - #13	1 - #7 sq	-
Mean Length Turn	1648.5 mm (64.9 inch)	-	-
Copper Weight	64.2 kg (141.5 lb)	98.4744 kg (217.1 lb)	-
Inside Connection ⁽¹⁾	4 in Series	4 in Series	-
Line Leads (No. & Size)	20 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0131	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.17	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0000 mm (5.0 inch)	127.0000 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	250	6	
No. & Size Wire	1 - #18	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ Wind 6 coil groups with 4 coils per group, wind 6 coil groups with 5 coils per group. Put coil groups in stator (4,5,4,5-etc).

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #36

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram H

Note: Wires 20, 22, and 24 are brought out as tap connections between the 9th and 10th coil (9 turns from T0).

i01330036

Winding Data for 5N-8891 Generator through 5N-8911 Generator

SMCS Code: 4450

5N-8891 Generator

Table 544

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3.4(3,4,3,4,3)	-	-
Turns/Pole	-	110	-
No. & Wire Size	10 - #15	1 - #7	-
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	37.4 kg (82.5 lb)	41.7 kg (91.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #6	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0118 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.760 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (14 turns from T0).

5N-8892 Generator

Table 545

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.4(2,3,2,3,2)	-	-
Turns/Pole	-	110	-
No. & Wire Size	12 - #14	1 - #7	-
Mean Length Turn	1226.8 mm (48.3 inch)	-	-
Copper Weight	39.9 kg (88.1 lb)	41.7 kg (91.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0053 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.760 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	95	6	
No. & Size Wire	1 - #14	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.4 kg (9.8 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 8893 Generator

Table 546

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.8(3,3,2,3,3)	-	-
Turns/Pole	-	110	-
No. & Wire Size	10 - #14	1 - #7	-
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	39.9 kg (88.0 lb)	41.7 kg (91.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #14	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0077 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.760 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 8894 Generator

Table 547

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.8(3,3,2,3,3)	-	-
Turns/Pole	-	110	-
No. & Wire Size	10 - #14	1 - #7	-
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	39.9 kg (88.0 lb)	41.7 kg (91.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #14	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0077 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.760 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 8895 Generator

Table 548

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.8(3,3,2,3,3)	-	-
Turns/Pole	-	110	-
No. & Wire Size	10 - #14	1 - #7	-
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	39.9 kg (88.0 lb)	41.7 kg (91.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #14	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0077 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.760 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 8896 Generator

Table 549

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.4(2,3,2,3,2)	-	-
Turns/Pole	-	110	-
No. & Wire Size	12 - #14	1 - #7	-
Mean Length Turn	1226.8 mm (48.3 inch)	-	-
Copper Weight	39.9 kg (88.1 lb)	41.7 kg (91.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0053 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.760 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	95	6	
No. & Size Wire	1 - #14	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.4 kg (9.8 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-8897 Generator

Table 550

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	2.8(3,3,2,3,3)	-	-
Turns/Pole	-	110	-
No. & Wire Size	10 - #14	1 - #7	-
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	39.9 kg (88.0 lb)	41.7 kg (91.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #14	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0077 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.760 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 8898 Generator

Table 551

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	292.1 mm (11.5 inch)	292.1 mm (11.5 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3.4(3,4,3,4,3)	-	-
Turns/Pole	-	110	-
No. & Wire Size	10 - #15	1 - #7	-
Mean Length Turn	1214.1 mm (47.8 inch)	-	-
Copper Weight	37.4 kg (82.5 lb)	41.7 kg (91.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #6	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0122 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.760 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (14 turns from T0).

5N - 8899 Generator

Table 552

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	110	-
No. & Wire Size	11 - #13	1 - #7	-
Mean Length Turn	1399.5 mm (55.1 inch)	-	-
Copper Weight	43.9 kg (96.8 lb)	44.9 kg (98.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0043 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.820 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	95	6	
No. & Size Wire	1 - #14	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.4 kg (9.8 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-8900 Generator

Table 553

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.4(2,2,2,3,3)	-	-
Turns/Pole	-	110	-
No. & Wire Size	12 - #14	1 - #7	-
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	45.2 kg (99.7 lb)	44.9 kg (98.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0057 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.820 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-8901 Generator

Table 554

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	3	-	-
Turns/Pole	-	110	-
No. & Wire Size	12 - #15	1 - #7	-
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	43.6 kg (96.1 lb)	44.9 kg (98.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0091 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.820 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (14 turns from T0).

5N-8902 Generator

Table 555

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.4(2,2,2,3,3)	-	-
Turns/Pole	-	110	-
No. & Wire Size	12 - #14	1 - #7	-
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	45.2 kg (99.7 lb)	44.9 kg (98.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0057 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.820 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 114.3 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-8903 Generator

Table 556

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.4(2,2,2,3,3)	-	-
Turns/Pole	-	110	-
No. & Wire Size	12 - #14	1 - #7	-
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	45.2 kg (99.7 lb)	44.9 kg (98.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0057 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.820 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-8904 Generator

Table 557

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	110	-
No. & Wire Size	11 - #13	1 - #7	-
Mean Length Turn	1399.5 mm (55.1 inch)	-	-
Copper Weight	43.9 kg (96.8 lb)	44.9 kg (98.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0043 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.820 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	95	6	
No. & Size Wire	1 - #14	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.4 kg (9.8 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 8905 Generator

Table 558

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.4(2,2,2,3,3)	-	-
Turns/Pole	-	110	-
No. & Wire Size	12 - #14	1 - #7	-
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	45.2 kg (99.7 lb)	44.9 kg (98.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0057 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.820 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-8906 Generator

Table 559

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	330.2 mm (13.0 inch)	330.2 mm (13.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	3	-	-
Turns/Pole	-	110	-
No. & Wire Size	12 - #15	1 - #7	-
Mean Length Turn	1348.7 mm (53.1 inch)	-	-
Copper Weight	43.6 kg (96.1 lb)	44.9 kg (98.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0091 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.820 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (14 turns from T0).

5N-8908 Generator

Table 560

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	1.8(2,2,1,2,2)	-	-
Turns/Pole	-	110	-
No. & Wire Size	15 - #14	1 - #7	-
Mean Length Turn	1465.6 mm (57.7 inch)	-	-
Copper Weight	45.9 kg (101.1 lb)	49.1 kg (108.3 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0042 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.895 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	95	6	
No. & Size Wire	1 - #14	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.4 kg (9.8 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-8909 Generator

Table 561

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	2	-	-
Turns/Pole	-	110	-
No. & Wire Size	14 - #14	1 - #7	-
Mean Length Turn	1503.7 mm (59.2 inch)	-	-
Copper Weight	49.2 kg (108.5 lb)	49.1 kg (108.3 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0048 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.895 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-8910 Generator

Table 562

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	2.6(2,2,3,3,3)	-	-
Turns/Pole	-	110	-
No. & Wire Size	13 - #15	1 - #7	-
Mean Length Turn	1452.9 mm (57.2 inch)	-	-
Copper Weight	45.5 kg (100.4 lb)	49.1 kg (108.3 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #4	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0081 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.895 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	140	6	
No. & Size Wire	1 - #15.5	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #13⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between the 4th and 5th coil (14 turns from T0).

5N-8911 Generator

Table 563

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	381.0 mm (15.0 inch)	381.0 mm (15.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 13	-	-
Turns/Coil	1.8(2,2,1,2,2)	-	-
Turns/Pole	-	110	-
No. & Wire Size	15 - #14	1 - #7	-
Mean Length Turn	1465.6 mm (57.7 inch)	-	-
Copper Weight	45.9 kg (101.1 lb)	49.1 kg (108.3 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0042 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.895 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	95	6	
No. & Size Wire	1 - #14	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	
Copper Weight	4.4 kg (9.8 lb)	2.2 kg (4.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 114.3000 mm (4.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

i01330280

Winding Data for 5N-9081 Generator through 5N-9432 Generator

SMCS Code: 4450

5N-9081 Generator

Table 564

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	5.6 (6,6,4,6,6)	-	-
Turns/Pole	-	110	-
No. & Wire Size	6 - #15	1 - #17	-
Mean Length Turn	934.7 mm (36.8 inch)	-	-
Copper Weight	29.2 kg (64.3 lb)	438.1 kg (965.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	10 - #4	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.025 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.56 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	105	6	
No. & Size Wire	1 - #15	2 - #14.5	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calc.)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	
Copper Weight	3.9 kg (8.5 lb)	3.4 kg (7.5 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 - 965.2 mm (38.0 inch)	#10 - 152.4 mm (6.0 inch)	

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-9082 Generator

Table 565

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	228.6 mm (9.0 inch)	228.6 mm (9.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3.4(3,4,3,4,3)	-	-
Turns/Pole	-	96	-
No. & Wire Size	6 - #15	1 - #9	-
Mean Length Turn	960.1 mm (37.8 inch)	-	-
Copper Weight	18.6 kg (40.95 lb)	18.2 kg (40.04 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	10 - #4	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0148 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.80 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	160	9	
No. & Size Wire	1 - #16.5	1 - #14	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	113.3 mm (4.46 inch)	254.0 mm (10.0 inch)	
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	#10 139.7 mm (5.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

5N - 9083 Generator

Table 566

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	3.4(4,3,3,3,4)	-	-
Turns/Pole	-	110	-
No. & Wire Size	8 - #14	1 - #7	-
Mean Length Turn	1135.4 mm (44.7 inch)	-	-
Copper Weight	34.9 kg (77.0 lb)	34.2 kg (75.4 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #6	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.01 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.63 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	95	6	
No. & Size Wire	1 - #14.5	2 - #14.5	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	
Copper Weight	3.9 kg (8.7 lb)	3.4 kg (7.5 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #01⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-9084 Generator

Table 567

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	5	-	-
Turns/Pole	-	110	-
No. & Wire Size	7 - #15	1 - #7	-
Mean Length Turn	934.7 mm (36.8 inch)	-	-
Copper Weight	29.3 kg (64.7 lb)	29.9 kg (65.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	20 - #6	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.01 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.63 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	95	6	
No. & Size Wire	1 - #14.5	2 - #14.5	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	
Copper Weight	3.9 kg (8.7 lb)	3.4 kg (7.5 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N - 9085 Generator

Table 568

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	228.6 mm (9.0 inch)	228.6 mm (9.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	5	-	-
Turns/Pole	-	96	-
No. & Wire Size	5 - #15	1 - #9	-
Mean Length Turn	960.1 mm (37.8 inch)	-	-
Copper Weight	17.2 kg (37.98 lb)	18.2 kg (40.04 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	10 - #6	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.033 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.80 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	160	9	
No. & Size Wire	1 - #16.5	1 - #14	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	113.3 mm (4.46 inch)	254.0 mm (10.0 inch)	
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	#10 139.7 mm (5.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #05⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

Note: Wires 20, 22, and 24 are brought out as tap connections between 4th and 5th coil (18 turns from T0).

5N - 9086 Generator

Table 569

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	4.65(4,4,5,5,5)	-	-
Turns/Pole	-	110	-
No. & Wire Size	7 - #15	1 - #7	-
Mean Length Turn	1036.3 mm (40.8 inch)	-	-
Copper Weight	27.2 kg (60.0 lb)	34.2 kg (75.4 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	10 - #4	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0192 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.630 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	105	6	
No. & Size Wire	1 - #15	2 - #14.5	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	
Copper Weight	3.9 kg (8.5 lb)	3.4 kg (7.5 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #05

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between 4th and 5th coil (18 turns from T0).

5N - 9087 Generator

Table 570

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	7	-	-
Turns/Pole	-	110	-
No. & Wire Size	6 - #16	1 - #7	-
Mean Length Turn	934.7 mm (36.8 inch)	-	-
Copper Weight	27.9 kg (61.6 lb)	29.9 kg (65.9 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	10 - #6	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0366 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.56 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	105	6	
No. & Size Wire	1 - #15	2 - #14.5	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	
Copper Weight	3.9 kg (8.5 lb)	3.4 kg (7.5 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

Note: Wires 20, 22, and 24 are brought out as tap connections between 4th and 5th coil (18 turns from T0).

5N - 9088 Generator

Table 571

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	228.6 mm (9.0 inch)	228.6 mm (9.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	4	-	-
Turns/Pole	-	96	-
No. & Wire Size	5 - #15	1 - #9	-
Mean Length Turn	960.1 mm (37.8 inch)	-	-
Copper Weight	17.2 kg (37.98 lb)	18.2 kg (40.04 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	10 - #6	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.021 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.80 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	160	9	
No. & Size Wire	1 - #16.5	1 - #14	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	113.3 mm (4.46 inch)	254.0 mm (10.0 inch)	
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 914.4 mm (36.0 inch)	#10 139.7 mm (5.5 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #31

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

5N - 9089 Generator

Table 572

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	203.2 mm (8.0 inch)	203.2 mm (8.0 inch)	-
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	3.6(3,3,4,4,4)	-	-
Turns/Pole	-	110	-
No. & Wire Size	7 - #14	1 - #7	-
Mean Length Turn	1036.3 mm (40.8 inch)	-	-
Copper Weight	30.5 kg (67.2 lb)	442.4 kg (975.4 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	-
Line Leads (No. & Size)	10 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.012 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	0.63 ohms	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	105	6	
No. & Size Wire	1 - #15	2 - #14.5	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	
Copper Weight	3.9 kg (8.5 lb)	3.4 kg (7.5 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #02⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

5N-9432 Generator

Table 573

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (RANDOM WOUND)	ROTOR (FORM WOUND)
Stack Height	424.2 mm (16.7 inch)	431.8 mm (17.0 inch)	-
Slots	54 ⁽¹⁾	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	1	-	-
Turns/Pole	-	160	-
No. & Wire Size	30 - #13	1 - #7 sq	-
Mean Length Turn	1648.5 mm (64.9 inch)	-	-
Copper Weight	64.2 kg (141.5 lb)	98.4744 kg (217.1 lb)	-
Inside Connection ⁽¹⁾	4 in Series	4 in Series	-
Line Leads (No. & Size)	20 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	.0131	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.17	-
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0000 mm (5.0 inch)	127.0000 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	250	6	
No. & Size Wire	1 - #18	2 - #15	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	#14 965.2 mm (38.0 inch)	#10 152.4 mm (6.0 inch)	

⁽¹⁾ Wind 6 coil groups with 4 coils per group, wind 6 coil groups with 5 coils per group. Put coil groups in stator (4,5,4,5-etc).

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram #36

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram H

Note: Wires 20, 22, and 24 are brought out as tap connections between the 9th and 10th coil (9 turns from T0).

i01353598

Winding Data for 6I-0053 Generator through 6I-4853 Generator

SMCS Code: 4450

6I-0053 Generator

Table 574

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	198.1 mm (7.8 inch)		198.1 mm (7.8 inch)
Slots	48		-
Coil Throw	1 - 9		-
Turns/Coil	6		-
Turns/Pole	-		130
No. & Wire Size	7 - #15		#8 SQ
Mean Length Turn	972.8 mm (38.3 inch)		-
Copper Weight	30.7 kg (67.7 lb)		38.1 kg (84.1 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0779 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.811 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		

(continued)

(Table 574, contd)

MAIN STATOR AND ROTOR WINDING DATA			
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

6I - 0055 Generator

Table 575

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	223.5 mm (8.8 inch)		223.5 mm (8.8 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.5 (3-4-3-4)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1079.5 mm (42.5 inch)		-
Copper Weight	34.5 kg (76.0 lb)		40.6 kg (89.4 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00736 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.828 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 09

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

6I - 0056 Generator

Table 576

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	223.5 mm (8.8 inch)		223.5 mm (8.8 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4		-
Turns/Pole	-		130
No. & Wire Size	8 - #14 and 1 - #15		#8 SQ
Mean Length Turn	1079.5 mm (42.5 inch)		-
Copper Weight	1927.9 mm (75.9 inch)		40.6 kg (89.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00982 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.828 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

6I - 0059 Generator

Table 577

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	223.5 mm (8.8 inch)		223.5 mm (8.8 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	5		-
Turns/Pole	-		130
No. & Wire Size	7 - #14		#8 SQ
Mean Length Turn	1079.5 mm (42.5 inch)		-
Copper Weight	1917.7 mm (75.5 inch)		40.6 kg (89.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0568 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.828 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

6I-0061 Generator

Table 578

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4.25 (5-4-4-4)		-
Turns/Pole	-		130
No. & Wire Size	8 - #14		#8 SQ
Mean Length Turn	1234.4 mm (48.6 inch)		-
Copper Weight	2159.0 mm (85.0 inch)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0464 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

6I - 0063 Generator

Table 579

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5 (3-2-3-2)		-
Turns/Pole	-		130
No. & Wire Size	14 - #14		#8 SQ
Mean Length Turn	1645.9 mm (64.8 inch)		-
Copper Weight	51.4 kg (113.4 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #0000		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0215 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

6I - 0065 Generator

Table 580

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	8.54661		-
Turns/Coil	2-2-2-1		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1430.0 mm (56.3 inch)		-
Copper Weight	50.1 kg (110.4 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #00		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00306 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 46

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

6I -2676 Generator

Table 581

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	685.8 mm (27.0 inch)		698.5 mm (27.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	4		-
Turns/Pole	-		216
No. & Wire Size	2 - 3.3 mm (0.128 inch)×4.8 mm (0.189 inch)		#6 SQ
Mean Length Turn	2349.5 mm (92.5 inch)		-
Copper Weight	153.6 kg (338.6 lb)		249.0 kg (549.0 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.22 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.841 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

6I - 3088 Generator

Table 582

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		614.7 mm (24.2 inch)
Slots	84		-
Coil Throw	1 - 17		-
Turns/Coil	1		-
Turns/Pole	-		174
No. & Wire Size	6 - 3.8 mm (0.148 inch)×3.9 mm (0.153 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2400.3 mm (94.5 inch)		-
Copper Weight	157.8 kg (348.0 lb)		298.9 kg (659.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00179 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.863 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

6I -3090 Generator

Table 583

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	660.4 mm (26.0 inch)		673.1 mm (26.5 inch)
Slots	84		-
Coil Throw	1 - 17		-
Turns/Coil	1		-
Turns/Pole	-		174
No. & Wire Size	6 - 3.8 mm (0.148 inch)×3.9 mm (0.153 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2608.6 mm (102.7 inch)		-
Copper Weight	195.1 kg (430.1 lb)		320.1 kg (705.6 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #00		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00209 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

6I -3092 Generator

Table 584

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		538.5 mm (21.2 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		174
No. & Wire Size	4 - 3.4 mm (0.134 inch)×6.1 mm (0.241 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2065.0 mm (81.3 inch)		-
Copper Weight	187.0 kg (412.2 lb)		275.3 kg (607.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00272 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.765 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

6I -3094 Generator

Table 585

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	482.6 mm (19.0 inch)		495.3 mm (19.5 inch)
Slots	72		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	4 - 3.1 mm (0.122 inch)×4.2 mm (0.165 inch)		#6 SQ
Mean Length Turn	1973.6 mm (77.7 inch)		-
Copper Weight	126.9 kg (279.7 lb)		196.9 kg (434.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00477 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.476 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

6I -4827 Generator

Table 586

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	762.0 mm (30.0 inch)		774.7 mm (30.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	6 - #5 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2677.2 mm (105.4 inch)		-
Copper Weight	216.7 kg (477.7 lb)		398.3 kg (878.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #00		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00137 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.15 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

6I - 4829 Generator

Table 587

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		614.7 mm (24.2 inch)
Slots	84		-
Coil Throw	1 - 18		-
Turns/Coil	1		-
Turns/Pole	-		174
No. & Wire Size	40 - #14		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2402.8 mm (94.6 inch)		-
Copper Weight	151.5 kg (334.0 lb)		298.9 kg (659.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00211 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.863 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

6I - 4833 Generator

Table 588

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	477.5 mm (18.8 inch)		495.3 mm (19.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	2		-
Turns/Pole	-		174
No. & Wire Size	31 - #14		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2001.5 mm (78.8 inch)		-
Copper Weight	140.6 kg (310.0 lb)		259.9 kg (571.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.003255 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.716 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

6I - 4835 Generator

Table 589

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	762.0 mm (30.0 inch)		774.7 mm (30.5 inch)
Slots	72		-
Coil Throw	1 - 16		-
Turns/Coil	2		-
Turns/Pole	-		195.5
No. & Wire Size	4 - 3.0 mm (0.119 inch)×4.3 mm (0.169 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2832.1 mm (111.5 inch)		-
Copper Weight	186.0 kg (410.1 lb)		398.3 kg (878.0 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #00		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0972 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.15 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

6I - 4839 Generator

Table 590

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	685.8 mm (27.0 inch)		698.5 mm (27.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	6 - #7.5 SQ		#6 SQ
Mean Length Turn	2347.0 mm (92.4 inch)		-
Copper Weight	177.2 kg (390.6 lb)		249.0 kg (549.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00339 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.841 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

6I-4841 Generator

Table 591

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	685.8 mm (27.0 inch)		698.5 mm (27.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1.5 (1-2-1-2-1-2)		-
Turns/Pole	-		216
No. & Wire Size	18 - #13		#6 SQ
Mean Length Turn	2303.8 mm (90.7 inch)		-
Copper Weight	106.6 kg (235.0 lb)		249.0 kg (549.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0000		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00437 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.841 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

6I -4843 Generator

Table 592

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	736.6 mm (29.0 inch)		749.3 mm (29.5 inch)
Slots	90		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		147.5
No. & Wire Size	4 - #6 1/2		3.7 mm (0.144 inch)×7.3152 mm (0.288 inch)
Mean Length Turn	2382.5 mm (93.8 inch)		-
Copper Weight	222.6 kg (490.7 lb)		69.9 kg (154.2 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		6 in Series
Line Leads (No. & Size)	36 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00271 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.161 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 06

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

6I - 4845 Generator

Table 593

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	736.6 mm (29.0 inch)		749.3 mm (29.5 inch)
Slots	90		-
Coil Throw	1 - 11		-
Turns/Coil	3		-
Turns/Pole	-		147.5
No. & Wire Size	4 - 2.3 mm (0.089 inch)×3.3 mm (0.131 inch)	3.7 mm (0.144 inch)×7.3152 mm (0.288 inch)	
Mean Length Turn	2382.5 mm (93.8 inch)		-
Copper Weight	168.0 kg (370.3 lb)		69.9 kg (154.2 lb)
Inside Connection ⁽¹⁾	1 Series Star		6 in Series
Line Leads (No. & Size)	6 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.267 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.61 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 18⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

6I -4847 Generator

Table 594

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	487.7 mm (19.2 inch)		500.4 mm (19.7 inch)
Slots	72		-
Coil Throw	1 - 9		-
Turns/Coil	4		-
Turns/Pole	-		147.5
No. & Wire Size	4 - 3.7 mm (0.145 inch)×5.5 mm (0.215 inch)		3.7 mm (0.144 inch)×7.3152 mm (0.288 inch)
Mean Length Turn	1788.2 mm (70.4 inch)		-
Copper Weight	185.3 kg (408.6 lb)		49.1 kg (108.2 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		6 in Series
Line Leads (No. & Size)	36 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.004975 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8655 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 06

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

6I - 4849 Generator

Table 595

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	487.7 mm (19.2 inch)		500.4 mm (19.7 inch)
Slots	72		-
Coil Throw	1 - 11		-
Turns/Coil	5		-
Turns/Pole	-		147.5
No. & Wire Size	2 - 2.5 mm (0.100 inch)×4.9 mm (0.194 inch)		3.7 mm (0.144 inch)×7.3152 mm (0.288 inch)
Mean Length Turn	1955.8 mm (77.0 inch)		-
Copper Weight	156.2 kg (344.3 lb)		49.1 kg (108.2 lb)
Inside Connection ⁽¹⁾	1 Series Star		6 in Series
Line Leads (No. & Size)	6 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.351 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8655 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 18⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

6I-4851 Generator

Table 596

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	467.4 mm (18.4 inch)		480.1 mm (18.9 inch)
Slots	72		-
Coil Throw	1 - 11		-
Turns/Coil	4		-
Turns/Pole	-		154.5
No. & Wire Size	2 - 3.7 mm (0.145 inch)×4.8 mm (0.190 inch)		3.3 mm (0.130 inch)×6.4 mm (0.250 inch)
Mean Length Turn	1882.1 mm (74.1 inch)		-
Copper Weight	161.6 kg (356.2 lb)		36.7 kg (80.8 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		6 in Series
Line Leads (No. & Size)	36 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00558 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.12 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 06

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

6I - 4853 Generator

Table 597

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		431.8 mm (17.0 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	5		-
Turns/Pole	-		154.5
No. & Wire Size	2 - 2.8 mm (0.112 inch)×4.8 mm (0.190 inch)		3.3 mm (0.130 inch)×6.4 mm (0.250 inch)
Mean Length Turn	1706.9 mm (67.2 inch)		-
Copper Weight	159.2 kg (351.0 lb)		34.2 kg (75.3 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		6 in Series
Line Leads (No. & Size)	36 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00833 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.095 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 06

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

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Winding Data for 7C-1601 Generator through 7C-9126 Generator

SMCS Code: 4450

7C-1601 Generator

Table 598

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	299.7 mm (11.8 inch)		299.7 mm (11.8 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	4.00		-
Turns/Pole	-		128
No. & Wire Size	3 - #12 and 3 - #13 SQ		1 - #7 SQ
Mean Length Turn	1219.2 mm (48.0 inch)		-
Copper Weight	56.7 kg (125.0 lb)		88.5 kg (195.1 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0066 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.0589 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C - 1602 Generator

Table 599

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	299.7 mm (11.8 inch)		299.7 mm (11.8 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	4.00		-
Turns/Pole	-		128
No. & Wire Size	3 - #12 and 3 - #13 SQ		1 - #7 SQ
Mean Length Turn	1219.2 mm (48.0 inch)		-
Copper Weight	56.7 kg (125.0 lb)		88.5 kg (195.1 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0066 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.0589 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C - 1603 Generator

Table 600

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	424.2 mm (16.7 inch)		431.8 mm (17.0 inch)
Slots	84		-
Coil Throw	1 - 19		-
Turns/Coil	1		-
Turns/Pole	-		128
No. & Wire Size	18 - #13 SQ		1 - #7 SQ
Mean Length Turn	1724.7 mm (67.9 inch)		-
Copper Weight	62.1 kg (137.0 lb)		102.0 kg (224.8 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	40 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00261 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.309 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	125	6	-
No. & Size Wire	1 - #15 SQ	2 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 07

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

7C - 1604 Generator

Table 601

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	424.2 mm (16.7 inch)		431.8 mm (17.0 inch)
Slots	84		-
Coil Throw	1 - 19		-
Turns/Coil	1		-
Turns/Pole	-		165
No. & Wire Size	18 - #13 SQ		1 - #7 SQ
Mean Length Turn	1724.7 mm (67.9 inch)		-
Copper Weight	62.1 kg (137.0 lb)		102.0 kg (224.8 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	40 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00261 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.25 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 07

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C - 1605 Generator

Table 602

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (EARLIER)	ROTOR (CURRENT)
Stack Height	342.9 mm (13.5 inch)	355.6 mm (14.0 inch)	
Slots	96	-	-
Coil Throw	1 - 19	-	-
Turns/Coil	1.00	-	-
Turns/Pole	-	230	216
No. & Wire Size	22 - #13 SQ	1 - #6 SQ	1 - #6 SQ
Mean Length Turn	1826.3 mm (71.9 inch)	-	-
Copper Weight	91.8 kg (202.3 lb)	161.0 kg (355.0 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	40 - #0	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0024 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.19 ohms	
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	6	
No. & Size Wire	1 - #15 SQ	2 - #15 SQ	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	2 - #14	3 - #10	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 07

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

7C - 1606 Generator

Table 603

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (EARLIER)	ROTOR (CURRENT)
Stack Height	342.9 mm (13.5 inch)	355.6 mm (14.0 inch)	
Slots	96	-	-
Coil Throw	1 - 19	-	-
Turns/Coil	1.00	-	-
Turns/Pole	-	230	216
No. & Wire Size	22 - #13 SQ	1 - #6 SQ	1 - #6 SQ
Mean Length Turn	1826.3 mm (71.9 inch)	-	-
Copper Weight	91.8 kg (202.3 lb)	161.0 kg (355.0 lb)	-
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	40 - #0	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0024 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.19 ohms	
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	2 - #14	6 - #10	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 07⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C-1607 Generator

Table 604

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (EARLIER)	ROTOR (CURRENT)
Stack Height	482.6 mm (19.0 inch)	495.3 mm (19.5 inch)	495.3 mm (19.5 inch)
Slots	72	-	-
Coil Throw	1 - 15	-	-
Turns/Coil	1.00	-	-
Turns/Pole	-	209	216
No. & Wire Size	27 - #13 SQ	1 - #6 SQ	1 - #6 SQ
Mean Length Turn	1963.4 mm (77.3 inch)	-	-
Copper Weight	99.3 kg (219.0 lb)	185.6 kg (409.1 lb)	196.9 kg (434.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	
Line Leads (No. & Size)	40 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00173 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.3684 ohms	1.476 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	6	
No. & Size Wire	1 - #15 SQ	2 - #15 SQ	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	2 - #14	3 - #10	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 39

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

7C - 1608 Generator

Table 605

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (EARLIER)	ROTOR (CURRENT)
Stack Height	482.6 mm (19.0 inch)	495.3 mm (19.5 inch)	495.3 mm (19.5 inch)
Slots	72	-	-
Coil Throw	1 - 15	-	-
Turns/Coil	1.00	-	-
Turns/Pole	-	209	216
No. & Wire Size	27 - #13 SQ	1 - #6 SQ	1 - #6 SQ
Mean Length Turn	1963.4 mm (77.3 inch)	-	-
Copper Weight	99.3 kg (219.0 lb)	185.6 kg (409.1 lb)	196.9 kg (434.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	
Line Leads (No. & Size)	40 - #00	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00173 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.3684 ohms	1.476 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	2 - #14	6 - #10	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 39⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C - 1609 Generator

Table 606

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (EARLIER)	ROTOR (CURRENT)
Stack Height	685.8 mm (27.0 inch)	698.5 mm (27.5 inch)	698.5 mm (27.5 inch)
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	1.50 (1-2-1-2-1-2)	-	-
Turns/Pole	-	168	216
No. & Wire Size	18 - #13 SQ	1 - #5 SQ	1 - #6 SQ
Mean Length Turn	2341.9 mm (92.2 inch)	-	-
Copper Weight	108.4 kg (238.9 lb)	236.9 kg (522.3 lb)	249.0 kg (549.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	16 - #0000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0040 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.1211 ohms	1.84 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	6	
No. & Size Wire	1 - #15 SQ	2 - #15 SQ	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	2 - #14	3 - #10	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

7C-1610 Generator

Table 607

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (EARLIER)	ROTOR (CURRENT)
Stack Height	685.8 mm (27.0 inch)	698.5 mm (27.5 inch)	698.5 mm (27.5 inch)
Slots	72	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	1.50 (1-2-1-2-1-2)	-	-
Turns/Pole	-	168	216
No. & Wire Size	18 - #13 SQ	1 - #5 SQ	1 - #6 SQ
Mean Length Turn	2341.9 mm (92.2 inch)	-	-
Copper Weight	108.4 kg (238.9 lb)	236.9 kg (522.3 lb)	249.0 kg (549.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	16 - #0000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0040 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.1211 ohms	1.84 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	2 - #14	6 - #10	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C-1611 Generator

Table 608

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		538.5 mm (21.2 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1.50 (1-2-1-2-1-2)		-
Turns/Pole	-		174
No. & Wire Size	35 - #14 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2108.2 mm (83.0 inch)		-
Copper Weight	163.3 kg (360.0 lb)		275.3 kg (607.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	32 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0026 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.765 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 59

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C-1612 Generator

Table 609

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		538.5 mm (21.2 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1.50 (1-2-1-2-1-2)		-
Turns/Pole	-		174
No. & Wire Size	35 - #14 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2108.2 mm (83.0 inch)		-
Copper Weight	163.3 kg (360.0 lb)		275.3 kg (607.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	32 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0026 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.765 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 59⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C-1613 Generator

Table 610

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		614.7 mm (24.2 inch)
Slots	84		-
Coil Throw	1 - 18		-
Turns/Coil	1		-
Turns/Pole	-		174
No. & Wire Size	40 - #14 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2402.8 mm (94.6 inch)		-
Copper Weight	160.6 kg (354.0 lb)		298.9 kg (659.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	32 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00198 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.863 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 11

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

7C-1614 Generator

Table 611

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		614.7 mm (24.2 inch)
Slots	84		-
Coil Throw	1 - 18		-
Turns/Coil	1		-
Turns/Pole	-		174.5
No. & Wire Size	40 - #14 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2428.2 mm (95.6 inch)		-
Copper Weight	151.5 kg (334.0 lb)		298.9 kg (659.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00222 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.863 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 11⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

7C-2269 Generator

Table 612

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	215.9 mm (8.5 inch)		215.9 mm (8.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	2.50 (2-3-2-3-2-3)		-
Turns/Pole	-		160
No. & Wire Size	9 - #13 SQ		1 - #7 SQ
Mean Length Turn	1244.6 mm (49.0 inch)		-
Copper Weight	47.9 kg (105.7 lb)		66.3 kg (146.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0071 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8520 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #15.5 SQ	2 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	-
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

7C-2312 Generator

Table 613

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	215.9 mm (8.5 inch)		215.9 mm (8.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	3.17 (3-3-3-3-4)		-
Turns/Pole	-		160
No. & Wire Size	8 - #14 SQ		1 - #7 SQ
Mean Length Turn	1295.4 mm (51.0 inch)		-
Copper Weight	44.6 kg (98.4 lb)		66.3 kg (146.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0133 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8520 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #15.5 SQ	2 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	-
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 13

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

7C-2617 Generator

Table 614

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (EARLIER)	ROTOR (CURRENT)
Stack Height	482.6 mm (19.0 inch)	495.3 mm (19.5 inch)	495.3 mm (19.5 inch)
Slots	72	-	-
Coil Throw	1 - 15	-	-
Turns/Coil	4.00	-	-
Turns/Pole	-	209	216
No. & Wire Size	2 - 2.7 mm (0.107 inch)×3.7 mm (0.145 inch)	1 - #6 SQ	1 - #6 SQ
Mean Length Turn	2141.2 mm (84.3 inch)	-	-
Copper Weight	105.6 kg (232.7 lb)	185.6 kg (409.1 lb)	196.9 kg (434.0 lb)
Inside Connection ⁽¹⁾	1 Series Star	4 in Series	4 in Series
Line Leads (No. & Size)	6 - #4	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.3925 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.3684 ohms	1.46 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	2 - #14	6 - #10	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C-2618 Generator

Table 615

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	660.4 mm (26.0 inch)		673.1 mm (26.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	3		-
Turns/Pole	-		174
No. & Wire Size	2 - 4.3 mm (0.168 inch)×5.8 mm (0.228 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2517.1 mm (99.1 inch)		-
Copper Weight	213.0 kg (469.5 lb)		17922.2 mm (705.6 inch)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #00		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.119 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

7C-2619 Generator

Table 616

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (EARLIER)	ROTOR (CURRENT)
Stack Height	508.0 mm (20.0 inch)	520.7 mm (20.5 inch)	520.7 mm (20.5 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	5.00	-	-
Turns/Pole	-	209	216
No. & Wire Size	2 - 2.5 mm (0.100 inch)×4.9 mm (0.194 inch)	1 - #6 SQ	1 - #6 SQ
Mean Length Turn	2077.7 mm (81.8 inch)	-	-
Copper Weight	135.2 kg (298.0 lb)	191.9 kg (423.0 lb)	196.9 kg (434.0 lb)
Inside Connection ⁽¹⁾	1 Series Star	4 in Series	4 in Series
Line Leads (No. & Size)	6 - #2	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.3132 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.4150 ohms	1.50 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	2 - #14	6 - #10	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C-2620 Generator

Table 617

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	762.0 mm (30.0 inch)		774.7 mm (30.5 inch)
Slots	72		-
Coil Throw	1 - 16		-
Turns/Coil	2		-
Turns/Pole	-		195.5
No. & Wire Size	4 - 3.0 mm (0.119 inch)×4.3 mm (0.169 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2832.1 mm (111.5 inch)		-
Copper Weight	186.0 kg (410.1 lb)		398.3 kg (878.0 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #00		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0972 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.15 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

7C-2621 Generator

Table 618

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		614.7 mm (24.2 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	3.00		-
Turns/Pole	-		174
No. & Wire Size	2 - #5 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2474.0 mm (97.4 inch)		-
Copper Weight	201.7 kg (444.7 lb)		300.7 kg (663.0 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.1543 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8683 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	2 - #16.5 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

7C-2623 Generator

Table 619

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	914.4 mm (36.0 inch)		927.1 mm (36.5 inch)
Slots	90		-
Coil Throw	1 - 12		-
Turns/Coil	2		-
Turns/Pole	-		163.5
No. & Wire Size	4 - #6 1/2 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2814.3 mm (110.8 inch)		-
Copper Weight	311.3 kg (686.4 lb)		91.6 kg (202.0 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		6 in Series
Line Leads (No. & Size)	36 - #00		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00315 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.552 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	320	8	-
No. & Size Wire	2 - #18.5 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	-	436.9 mm (17.2 inch)	-
Copper Weight	14.8 kg (32.6 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series/Parallel	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 06⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram F

7C-3484 Generator

Table 620

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	215.9 mm (8.5 inch)		215.9 mm (8.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	2.50 (2-3-2-3-2-3)		-
Turns/Pole	-		160
No. & Wire Size	9 - #13 SQ		1 - #7 SQ
Mean Length Turn	1244.6 mm (49.0 inch)		-
Copper Weight	47.9 kg (105.7 lb)		66.3 kg (146.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0071 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8520 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #15.5 SQ	2 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	-
Copper Weight	4.7 kg (10.3 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series/Parallel	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

7C-3537 Generator

Table 621

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (EARLIER)	ROTOR (CURRENT)
Stack Height	508.0 mm (20.0 inch)	520.7 mm (20.5 inch)	520.7 mm (20.5 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	1.00	-	-
Turns/Pole	-	230	216
No. & Wire Size	32 - #13 SQ	1 - #6 SQ	1 - #6 SQ
Mean Length Turn	2057.4 mm (81.0 inch)	-	-
Copper Weight	94.0 kg (207.3 lb)	211.1 kg (465.5 lb)	203.2 kg (448.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	40 - #000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0011 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.5572 ohms	1.50 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	6	
No. & Size Wire	1 - #15 SQ	2 - #15 SQ	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.9 lb)	
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	2 - #14	3 - #10	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 39⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

7C-3538 Generator

Table 622

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (EARLIER)	ROTOR (CURRENT)
Stack Height	508.0 mm (20.0 inch)	520.7 mm (20.5 inch)	520.7 mm (20.5 inch)
Slots	60	-	-
Coil Throw	1 - 14	-	-
Turns/Coil	1.00	-	-
Turns/Pole	-	230	216
No. & Wire Size	32 - #13 SQ	1 - #6 SQ	1 - #6 SQ
Mean Length Turn	2057.4 mm (81.0 inch)	-	-
Copper Weight	94.0 kg (207.3 lb)	211.1 kg (465.5 lb)	203.2 kg (448.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	40 - #000	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0011 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.5572 ohms	1.50 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz		
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	
Coils/Group	1	2	
Slots (Coils)	8	48	
Turns (Coils)	160	7	
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	2 - #14	6 - #10	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 39

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C-3539 Generator

Table 623

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	406.4 mm (16.0 inch)		419.1 mm (16.5 inch)
Slots	84		-
Coil Throw	1 - 18		-
Turns/Coil	1.00		-
Turns/Pole	-		230
No. & Wire Size	27 - #13 SQ		1 - #6 SQ
Mean Length Turn	1948.2 mm (76.7 inch)		-
Copper Weight	105.1 kg (231.8 lb)		183.3 kg (404.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	40 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0017 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.3522 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	125	6	-
No. & Size Wire	1 - #15 SQ	2 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.91 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series		-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 39

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

7C-3540 Generator

Table 624

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	406.4 mm (16.0 inch)		419.1 mm (16.5 inch)
Slots	84		-
Coil Throw	1 - 18		-
Turns/Coil	1.00		-
Turns/Pole	-		230
No. & Wire Size	27 - #13 SQ		1 - #6 SQ
Mean Length Turn	1948.2 mm (76.7 inch)		-
Copper Weight	105.1 kg (231.8 lb)		183.3 kg (404.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	40 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0017 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.3522 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	2 - #16.5 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 39

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C-3541 Generator

Table 625

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	477.5 mm (18.8 inch)		495.3 mm (19.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	2		-
Turns/Pole	-		174
No. & Wire Size	31 - #14 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2001.5 mm (78.8 inch)		-
Copper Weight	152.4 kg (336.0 lb)		259.0 kg (571.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	32 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00311 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.716 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 59⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C-3542 Generator

Table 626

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	477.5 mm (18.8 inch)		495.3 mm (19.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	2		-
Turns/Pole	-		174
No. & Wire Size	31 - #14 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2001.5 mm (78.8 inch)		-
Copper Weight	152.4 kg (336.0 lb)		259.0 kg (571.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	32 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00311 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.716 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 59

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C-4118 Generator

Table 627

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR	ROTOR (EARLIER)	ROTOR (CURRENT)
Stack Height	482.6 mm (19.0 inch)	495.3 mm (19.5 inch)	495.3 mm (19.5 inch)
Slots	60	-	-
Coil Throw	1 - 12	-	-
Turns/Coil	1.60 (2-1-2-1-2)	-	-
Turns/Pole	-	209	216
No. & Wire Size	28 - #14 SQ	1 - #6 SQ	1 - #6 SQ
Mean Length Turn	1945.6 mm (76.6 inch)	-	-
Copper Weight	98.7 kg (217.7 lb)	185.6 kg (409.1 lb)	196.9 kg (434.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star	4 in Series	4 in Series
Line Leads (No. & Size)	40 - #1	-	-
Terminal bolt size	3/8 inch	-	-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0024 ohms	-	-
Field lead resistance at 25 ° C (77 ° F)	-	1.3684 ohms	
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz		
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	
Coils/Group	1	2	
Slots (Coils)	6	36	
Turns (Coils)	125	3	
No. & Size Wire	1 - #15 SQ	2 - #15 SQ	
Coil Throw	1 - 2	1 - 6	
Mean Length Turn (Calculated)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.91 lb)	
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	
Line Leads	2 - #14	3 - #10	

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 23⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

7C-4121 Generator

Table 628

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		614.7 mm (24.2 inch)
Slots	84		-
Coil Throw	1 - 18		-
Turns/Coil	1.43 (1-1-2-2-2-1-1)		-
Turns/Pole	-		174
No. & Wire Size	46 - #15 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2540.0 mm (100.0 inch)		-
Copper Weight	210.5 kg (464.0 lb)		298.9 kg (659.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	32 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.003004 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.863 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 11

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

7C-4913 Generator

Table 629

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	444.5 mm (17.5 inch)		457.2000 mm (18.0 inch)
Slots	72		-
Coil Throw	1 - 11		-
Turns/Coil	5		-
Turns/Pole	-		147.5
No. & Wire Size	2 - 2.5 mm (0.098 inch)×2.7 mm (0.108 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	1828.8 mm (72.0 inch)		-
Copper Weight	126.0 kg (277.8 lb)		49.1 kg (108.2 lb)
Inside Connection ⁽¹⁾	1 Series Star		6 in Series
Line Leads (No. & Size)	6 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.408 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9625 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 18⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C-5094 Generator

Table 630

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		538.5 mm (21.2 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	2		-
Turns/Pole	-		174
No. & Wire Size	4 - 3.5 mm (0.136 inch)×5.0 mm (0.198 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2270.8 mm (89.4 inch)		-
Copper Weight	197.7 kg (435.8 lb)		275.3 kg (607.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #000		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00415 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.765 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7C-7149 Generator

Table 631

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	215.9 mm (8.5 inch)		215.9 mm (8.5 inch)
Slots	48		-
Coil Throw			-
Turns/Coil	11-6-4		-
Turns/Pole	-		96
No. & Wire Size	4 - #15.0 SQ		1 - #8 3/4 RD
Mean Length Turn	967.7 mm (38.1 inch)		-
Copper Weight	14.6 kg (32.2 lb)		17.6 kg (38.8 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0321 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7924 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	180	10	-
No. & Size Wire	1 - #17.0 SQ	1 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.4 kg (3.1 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #12	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 24

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

7C-7151 Generator

Table 632

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	261.6 mm (10.3 inch)		261.6 mm (10.3 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4.50 (4-5-4-5)		-
Turns/Pole	-		96
No. & Wire Size	4 - #14.0 SQ		1 - #9 SQ
Mean Length Turn	1000.8 mm (39.4 inch)		-
Copper Weight	16.3 kg (36.0 lb)		24.0 kg (52.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0232 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7715 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	180	10	-
No. & Size Wire	1 - #17.0 SQ	1 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.4 kg (3.1 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #12	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

7C-7537 Generator

Table 633

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	182.9 mm (7.2 inch)		182.9 mm (7.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	6.50 (6-7-6-7)		-
Turns/Pole	-		96
No. & Wire Size	1 - #15 and 3 - #16 SQ		1 - #8 3/4 RD
Mean Length Turn	843.3 mm (33.2 inch)		-
Copper Weight	13.2 kg (29.2 lb)		16.1 kg (35.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #6		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0356 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7237 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	180	10	-
No. & Size Wire	1 - #17.0 SQ	1 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.4 kg (3.1 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #12	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

7C-8892 Generator

Table 634

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	198.1 mm (7.8 inch)		198.1 mm (7.8 inch)
Slots	48		-
Coil Throw			-
Turns/Coil	4.50 (7-5-4-2)		-
Turns/Pole	-		96
No. & Wire Size	9 - #15 SQ		1 - #8 SQ
Mean Length Turn	990.6 mm (39.0 inch)		-
Copper Weight	30.4 kg (67.1 lb)		38.2 kg (84.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0132 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8030 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16.0 SQ	2 - #15.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 27

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

7C-8893 Generator

Table 635

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	223.5 mm (8.8 inch)		223.5 mm (8.8 inch)
Slots	48		-
Coil Throw	1 - 8.16446		-
Turns/Coil	4.25 (5-4-4-4)		-
Turns/Pole	-		130
No. & Wire Size	10 - #15 SQ		1 - #8 SQ
Mean Length Turn	1066.8 mm (42.0 inch)		-
Copper Weight	32.6 kg (71.9 lb)		40.6 kg (89.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0114 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8510 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16.0 SQ	2 - #15.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 27

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

7C-9126 Generator

Table 636

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		614.7 mm (24.2 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	2		-
Turns/Pole	-		174
No. & Wire Size	4 - 3.5 mm (0.136 inch)×5.0 mm (0.198 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2423.2 mm (95.4 inch)		-
Copper Weight	205.9 kg (454.0 lb)		298.9 kg (659.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #000		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00429 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.863 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	320	7	-
No. & Size Wire	1 - #16.5 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series/Parallel	2 Parallel Star	-
Line Leads	4 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram F

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Winding Data for 7E-0097 Generator through 7E-9695 Generator

SMCS Code: 4450

7E-0097 Generator

Table 637

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.5 (3-4-3-4)		-
Turns/Pole	-		130
No. & Wire Size	8 - #13		#8 SQ
Mean Length Turn	1165.9 mm (45.9 inch)		-
Copper Weight	36.1 kg (79.5 lb)		43.5 kg (95.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00827 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.909 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

7E - 0098 Generator

Table 638

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.25 (3-3-3-4)		-
Turns/Pole	-		130
No. & Wire Size	9 - #14		#8 SQ
Mean Length Turn	1231.9000 mm (48.5 inch)		-
Copper Weight	31.4 kg (69.3 lb)		45.6 kg (100.6 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00895 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.961 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

7E - 1243 Generator

Table 639

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		130
No. & Wire Size	10 - #14		#8 SQ
Mean Length Turn	1364.0 mm (53.7 inch)		-
Copper Weight	33.7 kg (74.4 lb)		48.3 kg (106.5 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00721 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.015 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 02

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

7E-5425 Generator

Table 640

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 9.0708		-
Turns/Coil	3.00 (4-4-3-1)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14 SQ		1 - #8 SQ
Mean Length Turn	1252.2 mm (49.3 inch)		-
Copper Weight	34.0 kg (75.0 lb)		48.4 kg (106.6 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0071 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9414 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16 SQ	2 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 02

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

7E - 9695 Generator

Table 641

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	711.2 mm (28.0 inch)		723.9 mm (28.5 inch)
Slots	84		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		225.5
No. & Wire Size	10 - #6 1/2 SQ		3.7 mm (0.145 inch)×7.6708 mm (0.302 inch) HF
Mean Length Turn	2768.6 mm (109.0 inch)		-
Copper Weight	302.6 kg (667.1 lb)		456.8 kg (1007.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0012 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.184 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

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Winding Data for 7W-1877 Generator through 7W-8825 Generator

SMCS Code: 4450

7W-1877 Generator

Table 642

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	261.6 mm (10.3 inch)		261.6 mm (10.3 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	5.67 (9-5-3)		-
Turns/Pole	-		96
No. & Wire Size	4 - #14 SQ		1 - #9 SQ
Mean Length Turn	1061.7 mm (41.8 inch)		-
Copper Weight	16.4 kg (36.1 lb)		24.0 kg (52.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0233 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7715 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	180	10	-
No. & Size Wire	1 - #17 SQ	1 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.4 kg (3.1 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #12	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 24

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

7W-3037 Generator

Table 643

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	139.7 mm (5.5 inch)		261.6 mm (10.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	6.80 (7-7-7-7-6)		-
Turns/Pole	-		96
No. & Wire Size	3 - #15 SQ		1 - #8 3/4 RD
Mean Length Turn	820.4 mm (32.3 inch)		-
Copper Weight	15.1 kg (33.2 lb)		14.1 kg (31.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #8		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0508 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.6338 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

7W-4367 Generator

Table 644

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	241.3 mm (9.5 inch)		241.3 mm (9.5 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	4.75 (4-5-5-5)		-
Turns/Pole	-		128
No. & Wire Size	9 - #15 SQ		1 - #7 SQ
Mean Length Turn	1104.9 mm (43.5 inch)		-
Copper Weight	50.9 kg (112.2 lb)		78.2 kg (172.5 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #6		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0085 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9362 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-4369 Generator

Table 645

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	241.3 mm (9.5 inch)		241.3 mm (9.5 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	4.75 (4-5-5-5)		-
Turns/Pole	-		128
No. & Wire Size	9 - #15 SQ		1 - #7 SQ
Mean Length Turn	1104.9 mm (43.5 inch)		-
Copper Weight	50.9 kg (112.2 lb)		78.2 kg (172.5 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #6		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0085 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9362 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-4371 Generator

Table 646

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	299.7 mm (11.8 inch)		299.7 mm (11.8 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	4.00		-
Turns/Pole	-		128
No. & Wire Size	3 - #12 and 3 - #13 SQ		1 - #7 SQ
Mean Length Turn	1219.2 mm (48.0 inch)		-
Copper Weight	56.7 kg (125.0 lb)		88.5 kg (195.1 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	36 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0066 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.0589 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 22

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-4373 Generator

Table 647

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	299.7 mm (11.8 inch)		299.7 mm (11.8 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	4.00		-
Turns/Pole	-		128
No. & Wire Size	3 - #12 and 3 - #13 SQ		1 - #7 SQ
Mean Length Turn	1219.2 mm (48.0 inch)		-
Copper Weight	56.7 kg (125.0 lb)		88.5 kg (195.1 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	36 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0066 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.0589 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 22

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-7521 Generator

Table 648

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	114.3 mm (4.5 inch)		114.3 mm (4.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	8.20 (8-8-9-8-8)		-
Turns/Pole	-		96
No. & Wire Size	1 - #15 and 1 - #14 SQ		1 - #8 3/4 RD
Mean Length Turn	746.8 mm (29.4 inch)		-
Copper Weight	12.3 kg (27.2 lb)		12.9 kg (28.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #8		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0745		-
Field lead resistance at 25 ° C (77 ° F)	-		0.5809 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	160	9	-
No. & Size Wire	1 - #16.5 SQ	1 - #14 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.5 kg (3.4 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #12	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram E

7W-7963 Generator

Table 649

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		538.5 mm (21.2 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	3		-
Turns/Pole	-		174
No. & Wire Size	2 - #6 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2235.2 mm (88.0 inch)		-
Copper Weight	157.6 kg (347.5 lb)		275.3 kg (607.0 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.192		-
Field lead resistance at 25 ° C (77 ° F)	-		0.765 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram G

7W-8671 Generator

Table 650

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	386.1 mm (15.2 inch)		396.2 mm (15.6 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	3.00		-
Turns/Pole	-		128
No. & Wire Size	9 - #13 SQ		1 - #7 SQ
Mean Length Turn	1394.5 mm (54.9 inch)		-
Copper Weight	64.5 kg (142.2 lb)		106.0 kg (233.8 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0043		-
Field lead resistance at 25 ° C (77 ° F)	-		1.2687 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8672 Generator

Table 651

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	386.1 mm (15.2 inch)		396.2 mm (15.6 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	3.00		-
Turns/Pole	-		128
No. & Wire Size	9 - #13 SQ		1 - #7 SQ
Mean Length Turn	1394.5 mm (54.9 inch)		-
Copper Weight	64.5 kg (142.2 lb)		106.0 kg (233.8 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0043		-
Field lead resistance at 25 ° C (77 ° F)	-		1.2687 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8673 Generator

Table 652

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	269.2 mm (10.6 inch)		281.9 mm (11.1 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	3.5		-
Turns/Pole	-		154.5
No. & Wire Size	12 - #13 SQ		3.3 mm (0.13 inch)×6.4 mm (0.25 inch)
Mean Length Turn	1308.1 mm (51.5 inch)		-
Copper Weight	93.9 kg (207.0 lb)		26.2 kg (57.7 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00399		-
Field lead resistance at 25 ° C (77 ° F)	-		0.802 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8674 Generator

Table 653

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	269.2 mm (10.6 inch)		281.9 mm (11.1 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	3.5		-
Turns/Pole	-		154.5
No. & Wire Size	12 - #13 SQ		3.3 mm (0.13 inch)×6.4 mm (0.25 inch)
Mean Length Turn	1308.1 mm (51.5 inch)		-
Copper Weight	93.9 kg (207.0 lb)		26.2 kg (57.7 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00399		-
Field lead resistance at 25 ° C (77 ° F)	-		0.802 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8675 Generator

Table 654

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	292.1 mm (11.5 inch)		304.8 mm (12.0 inch)
Slots	72		-
Coil Throw	1 - 11		-
Turns/Coil	3.25		-
Turns/Pole	-		154.5
No. & Wire Size	12 - #13 SQ		3.3 mm (0.13 inch)×6.4 mm (0.25 inch)
Mean Length Turn	1422.4 mm (56.0 inch)		-
Copper Weight	95.3 kg (210.0 lb)		27.4 kg (60.3 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00397		-
Field lead resistance at 25 ° C (77 ° F)	-		0.839 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8676 Generator

Table 655

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	292.1 mm (11.5 inch)		304.8 mm (12.0 inch)
Slots	72		-
Coil Throw	1 - 11		-
Turns/Coil	3.25		-
Turns/Pole	-		154.5
No. & Wire Size	12 - #13 SQ		3.3 mm (0.13 inch)×6.4 mm (0.25 inch)
Mean Length Turn	1422.4 mm (56.0 inch)		-
Copper Weight	95.3 kg (210.0 lb)		27.4 kg (60.3 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00397		-
Field lead resistance at 25 ° C (77 ° F)	-		0.839 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8677 Generator

Table 656

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		431.8 mm (17.0 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	2.5		-
Turns/Pole	-		154.5
No. & Wire Size	17 - #13 SQ		3.3 mm (0.13 inch)×6.4 mm (0.25 inch)
Mean Length Turn	1607.8 mm (63.3 inch)		-
Copper Weight	126.6 kg (279.0 lb)		34.2 kg (75.3 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00251		-
Field lead resistance at 25 ° C (77 ° F)	-		1.095 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8678 Generator

Table 657

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		431.8 mm (17.0 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	2.5		-
Turns/Pole	-		154.5
No. & Wire Size	17 - #13 SQ		3.3 mm (0.13 inch)×6.4 mm (0.25 inch)
Mean Length Turn	1607.8 mm (63.3 inch)		-
Copper Weight	126.6 kg (279.0 lb)		34.2 kg (75.3 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00251		-
Field lead resistance at 25 ° C (77 ° F)	-		1.095 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8679 Generator

Table 658

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	342.9 mm (13.5 inch)		355.6 mm (14.0 inch)
Slots	96		-
Coil Throw	1 - 19		-
Turns/Coil	1.00		-
Turns/Pole	-		230
No. & Wire Size	22 - #13 SQ		1 - #6 SQ
Mean Length Turn	1826.3 mm (71.9 inch)		-
Copper Weight	91.8 kg (202.3 lb)		150.6 kg (332.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0023		-
Field lead resistance at 25 ° C (77 ° F)	-		1.1100 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	125	3	-
No. & Size Wire	1 - #15 SQ	2 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.91 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 58

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

7W-8680 Generator

Table 659

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	342.9 mm (13.5 inch)		355.6 mm (14.0 inch)
Slots	96		-
Coil Throw	1 - 19		-
Turns/Coil	1.00		-
Turns/Pole	-		230
No. & Wire Size	22 - #13 SQ		1 - #6 SQ
Mean Length Turn	1826.3 mm (71.9 inch)		-
Copper Weight	91.8 kg (202.3 lb)		150.6 kg (332.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0023		-
Field lead resistance at 25 ° C (77 ° F)	-		1.1100 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	2 - #16.5 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 58

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8681 Generator

Table 660

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	467.4 mm (18.4 inch)		480.1 mm (18.9 inch)
Slots	72		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		154.5
No. & Wire Size	20 - #13 SQ		3.3 mm (0.13 inch)×6.4 mm (0.25 inch)
Mean Length Turn	1772.9 mm (69.8 inch)		-
Copper Weight	121.6 kg (268.0 lb)		36.7 kg (80.8 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00192 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.12 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8682 Generator

Table 661

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	467.4 mm (18.4 inch)		480.1 mm (18.9 inch)
Slots	72		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		154.5
No. & Wire Size	20 - #13 SQ		3.3 mm (0.13 inch)×6.4 mm (0.25 inch)
Mean Length Turn	1772.9 mm (69.8 inch)		-
Copper Weight	121.6 kg (268.0 lb)		36.7 kg (80.8 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00192 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.12 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8685 Generator

Table 662

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	487.7 mm (19.2 inch)		500.4 mm (19.7 inch)
Slots	90		-
Coil Throw	1 - 13		-
Turns/Coil	3		-
Turns/Pole	-		147.5
No. & Wire Size	11 - #12 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	1981.2 mm (78.0 inch)		-
Copper Weight	176.4 kg (389.0 lb)		49.1 kg (108.2 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		6 in Series
Line Leads (No. & Size)	12 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00504 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9625 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 14

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8686 Generator

Table 663

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	487.7 mm (19.2 inch)		500.4 mm (19.7 inch)
Slots	90		-
Coil Throw	1 - 13		-
Turns/Coil	3		-
Turns/Pole	-		147.5
No. & Wire Size	11 - #12 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	1981.2 mm (78.0 inch)		-
Copper Weight	176.4 kg (389.0 lb)		49.1 kg (108.2 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		6 in Series
Line Leads (No. & Size)	12 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00504 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9625 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 14

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8687 Generator

Table 664

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23.0 inch)		596.9 mm (23.5 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	3.00		-
Turns/Pole	-		147.5
No. & Wire Size	11 - #12 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2004.1 mm (78.9 inch)		-
Copper Weight	142.4 kg (314.0 lb)		49.1 kg (108.2 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		6 in Series
Line Leads (No. & Size)	12 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00396		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9625 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 14

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8688 Generator

Table 665

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23.0 inch)		596.9 mm (23.5 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	3.00		-
Turns/Pole	-		147.5
No. & Wire Size	11 - #12 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2004.1 mm (78.9 inch)		-
Copper Weight	142.9 kg (315.0 lb)		346.9 kg (764.7 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		6 in Series
Line Leads (No. & Size)	12 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0040		-
Field lead resistance at 25 ° C (77 ° F)	-		1.0016 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 14

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8690 Generator

Table 666

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		538.5 mm (21.2 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1.50 (1-2-1-2-1-2)		-
Turns/Pole	-		175
No. & Wire Size	35 - #14 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2115.8 mm (83.3 inch)		-
Copper Weight	150.9 kg (332.6 lb)		275.5 kg (607.4 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0024		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7955 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram G

7W-8691 Generator

Table 667

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		538.5 mm (21.2 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1.50 (1-2-1-2-1-2)		-
Turns/Pole	-		175
No. & Wire Size	35 - #14 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2115.8 mm (83.3 inch)		-
Copper Weight	150.9 kg (332.6 lb)		275.5 kg (607.4 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0024		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7955 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram G

7W-8692 Generator

Table 668

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	388.6 mm (15.3 inch)		401.3 mm (15.8 inch)
Slots	72		-
Coil Throw	1 - 13		-
Turns/Coil	3		-
Turns/Pole	-		216
No. & Wire Size	2 - #6 SQ		#6 SQ
Mean Length Turn	1783.1 mm (70.2 inch)		-
Copper Weight	110.1 kg (242.7 lb)		172.4 kg (380.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.009465		-
Field lead resistance at 25 ° C (77 ° F)	-		1.274 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	320	7	-
No. & Size Wire	1 - #16 1/2	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series/Parallel	2 Parallel Star	-
Line Leads	4 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8693 Generator

Table 669

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	736.6 mm (29.0 inch)		749.3 mm (29.5 inch)
Slots	90		-
Coil Throw	1 - 12		-
Turns/Coil	2		-
Turns/Pole	-		147.5
No. & Wire Size	14 - #12 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2336.8 mm (92.0 inch)		-
Copper Weight	183.7 kg (405.0 lb)		69.9 kg (154.2 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		6 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00332		-
Field lead resistance at 25 ° C (77 ° F)	-		1.161 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 15

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

7W-8695 Generator

Table 670

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	424.2 mm (16.7 inch)		431.8 mm (17.0 inch)
Slots	84		-
Coil Throw	1 - 19		-
Turns/Coil	1.00		-
Turns/Pole	-		160
No. & Wire Size	18 - #13 SQ		1 - #7 SQ
Mean Length Turn	1818.6 mm (71.6 inch)		-
Copper Weight	65.4 kg (144.2 lb)		98.6 kg (217.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0024 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.1792 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	125	3	-
No. & Size Wire	1 - #15 SQ	2 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.91 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 20

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

7W-8696 Generator

Table 671

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	424.2 mm (16.7 inch)		431.8 mm (17.0 inch)
Slots	84		-
Coil Throw	1 - 19		-
Turns/Coil	1.00		-
Turns/Pole	-		160
No. & Wire Size	18 - #13 SQ		1 - #7 SQ
Mean Length Turn	1818.6 mm (71.6 inch)		-
Copper Weight	65.4 kg (144.2 lb)		98.6 kg (217.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0024 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.1792 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 20

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram G

7W-8697 Generator

Table 672

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	482.6 mm (19.0 inch)		495.3 mm (19.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1.00		-
Turns/Pole	-		209
No. & Wire Size	27 - #13 SQ		1 - #6 SQ
Mean Length Turn	2001.5 mm (78.8 inch)		-
Copper Weight	92.5 kg (204.0 lb)		185.6 kg (409.1 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0015 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.3684 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	125	3	-
No. & Size Wire	1 - #15 SQ	2 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.91 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 58

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

7W-8698 Generator

Table 673

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	482.6 mm (19.0 inch)		495.3 mm (19.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1.00		-
Turns/Pole	-		209
No. & Wire Size	27 - #13 SQ		1 - #6 SQ
Mean Length Turn	2001.5 mm (78.8 inch)		-
Copper Weight	92.5 kg (204.0 lb)		185.6 kg (409.1 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0015 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.3684 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 58

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram G

7W-8699 Generator

Table 674

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	685.8 mm (27.0 inch)		698.5 mm (27.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1.50 (1-2-1-2-1-2)		-
Turns/Pole	-		168
No. & Wire Size	18 - #13 SQ		1 - #5 SQ
Mean Length Turn	2341.9 mm (92.2 inch)		-
Copper Weight	108.4 kg (238.9 lb)		236.9 kg (522.3 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0040 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.1211 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	125	3	-
No. & Size Wire	1 - #15 SQ	2 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (5.91 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

7W-8700 Generator

Table 675

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	685.8 mm (27.0 inch)		698.5 mm (27.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1.50 (1-2-1-2-1-2)		-
Turns/Pole	-		168
No. & Wire Size	18 - #13 SQ		1 - #5 SQ
Mean Length Turn	2341.9 mm (92.2 inch)		-
Copper Weight	108.4 kg (238.9 lb)		236.9 kg (522.3 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0040 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.1211 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram G

7W-8701 Generator

Table 676

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		614.7 mm (24.2 inch)
Slots	84		-
Coil Throw	1 - 18		-
Turns/Coil	1.00		-
Turns/Pole	-		174
No. & Wire Size	40 - #14 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2415.5 mm (95.1 inch)		-
Copper Weight	152.2 kg (335.6 lb)		300.7 kg (663.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0018		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8683 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram G

7W-8702 Generator

Table 677

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	596.9 mm (23.5 inch)		614.7 mm (24.2 inch)
Slots	84		-
Coil Throw	1 - 18		-
Turns/Coil	1.00		-
Turns/Pole	-		174
No. & Wire Size	40 - #14 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2415.5 mm (95.1 inch)		-
Copper Weight	152.2 kg (335.6 lb)		300.7 kg (663.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0018		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8683 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14 SQ	3 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram G

7W-8703 Generator

Table 678

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	386.1 mm (15.2 inch)		396.2 mm (15.6 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	3.00		-
Turns/Pole	-		128
No. & Wire Size	9 - #13 SQ		1 - #7 SQ
Mean Length Turn	1419.9 mm (55.9 inch)		-
Copper Weight	65.8 kg (145.0 lb)		17.6 kg (38.9 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.004899		-
Field lead resistance at 25 ° C (77 ° F)	-		1.3 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8704 Generator

Table 679

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	386.1 mm (15.2 inch)		396.2 mm (15.6 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	3.00		-
Turns/Pole	-		128
No. & Wire Size	9 - #13 SQ		1 - #7 SQ
Mean Length Turn	1419.9 mm (55.9 inch)		-
Copper Weight	65.8 kg (145.0 lb)		17.6 kg (38.9 lb)
Inside Connection ⁽¹⁾	6/3 Parallel Star		6 in Series
Line Leads (No. & Size)	30 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.004899		-
Field lead resistance at 25 ° C (77 ° F)	-		1.3 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.3503 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 38

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8743 Generator

Table 680

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	152.4 mm (6.0 inch)		152.4 mm (6.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	5.00		-
Turns/Pole	-		110
No. & Wire Size	7 - #15		1 - #7
Mean Length Turn	980.4 mm (38.6 inch)		-
Copper Weight	30.8 kg (67.9 lb)		29.9 kg (66.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0191 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.5331 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #16	2 - #14.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	365.8 mm (14.4 inch)	304.8 mm (12.0 inch)	-
Copper Weight	4.1 kg (9.0 lb)	3.6 kg (8.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #8	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

7W-8744 Generator

Table 681

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	292.1 mm (11.5 inch)		292.1 mm (11.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	2.80 (3-3-2-3-3)		-
Turns/Pole	-		110
No. & Wire Size	10 - #14 SQ		1 - #7 SQ
Mean Length Turn	1259.8 mm (49.6 inch)		-
Copper Weight	39.9 kg (88.0 lb)		41.7 kg (92.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0076 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7426 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	101.6 mm (4.0 inch)	101.6 mm (4.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	6	-
No. & Size Wire	1 - #15.5 SQ	2 - #15 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	414.0 mm (16.3 inch)	355.6 mm (14.0 inch)	-
Copper Weight	4.7 kg (10.3 lb)	2.2 kg (4.9 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

7W-8824 Generator

Table 682

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	660.4 mm (26.0 inch)		673.1 mm (26.5 inch)
Slots	84		-
Coil Throw	1 - 17		-
Turns/Coil	1.00		-
Turns/Pole	-		174
No. & Wire Size	6 - 3.8 mm (0.148 inch)×3.9 mm (0.153 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2504.4 mm (98.6 inch)		-
Copper Weight	160.6 kg (354.0 lb)		320.1 kg (705.6 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0019 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9241 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

7W-8825 Generator

Table 683

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	660.4 mm (26.0 inch)		673.1 mm (26.5 inch)
Slots	84		-
Coil Throw	1 - 17		-
Turns/Coil	1.00		-
Turns/Pole	-		174
No. & Wire Size	6 - 3.8 mm (0.148 inch)×3.9 mm (0.153 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2504.4 mm (98.6 inch)		-
Copper Weight	160.6 kg (354.0 lb)		320.1 kg (705.6 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #00		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0019 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9241 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

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Winding Data for 9Y-0157 Generator through 9Y-0389 Generator

SMCS Code: 4450

9Y-0157 Generator

Table 684

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	330.2 mm (13.0 inch)		342.9 mm (13.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.6		-
Turns/Pole	-		216
No. & Wire Size	29 - #14		#6 SQ
Mean Length Turn	1630.7 mm (64.2 inch)		-
Copper Weight	85.7 kg (189.0 lb)		157.8 kg (348.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00857 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.166 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 42

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0159 Generator

Table 685

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	355.6 mm (14.0 inch)		368.3 mm (14.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	3		-
Turns/Pole	-		216
No. & Wire Size	15 - #13		#6 SQ
Mean Length Turn	1752.6 mm (69.0 inch)		-
Copper Weight	112.9 kg (249.0 lb)		164.2 kg (362.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00647 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.214 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0161 Generator

Table 686

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	381.0 mm (15.0 inch)		393.7 mm (15.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	31 - #13		#6 SQ
Mean Length Turn	1828.8 mm (72.0 inch)		-
Copper Weight	113.4 kg (250.0 lb)		170.8 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00627 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 42

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0163 Generator

Table 687

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		444.5 mm (17.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	39 - #13		#6 SQ
Mean Length Turn	1963.4 mm (77.3 inch)		-
Copper Weight	144.2 kg (318.0 lb)		183.7 kg (405.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00461 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.380 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 42

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0165 Generator

Table 688

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	22 - #13		#6 SQ
Mean Length Turn	2082.8 mm (82.0 inch)		-
Copper Weight	130.6 kg (288.0 lb)		203.7 kg (449.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00360 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0167 Generator

Table 689

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	711.2 mm (28.0 inch)		723.9 mm (28.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	3		-
Turns/Pole	-		225.5
No. & Wire Size	2 - 5.0 mm (0.197 inch)×6.0 mm (0.236 inch)		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	2489.2 mm (98.0 inch)		-
Copper Weight	244.0 kg (537.9 lb)		207.2 kg (456.8 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0912 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.184 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

9Y-0169 Generator

Table 690

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22.0 inch)		571.5 mm (22.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	26 - #13		#6 SQ
Mean Length Turn	2049.8 mm (80.7 inch)		-
Copper Weight	152.0 kg (335.0 lb)		216.4 kg (477.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00306 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.600 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	9	-
No. & Size Wire	1 - #15.5	1 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	515.6 mm (20.3 inch)	431.8 mm (17.0 inch)	-
Copper Weight	6.0 kg (13.3 lb)	3.2 kg (7.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0353 Generator

Table 691

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	182.9 mm (7.2 inch)		182.9 mm (7.2 inch)
Slots	48		-
Coil Throw	1 - 11.3748		-
Turns/Coil	12 - 9 - 4		-
Turns/Pole	-		96
No. & Wire Size	1 - #15 and 3 - #16 SQ		1 - #8 3/4 RD
Mean Length Turn	901.7 mm (35.5 inch)		-
Copper Weight	13.6 kg (30.0 lb)		16.1 kg (35.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #6		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0367 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7237 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	180	10	-
No. & Size Wire	1 - #17.0 SQ	1 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.4 kg (3.1 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #12	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 24

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0356 Generator

Table 692

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	215.9 mm (8.5 inch)		215.9 mm (8.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	5.50 (5-6-5-6)		-
Turns/Pole	-		96
No. & Wire Size	4 - #15 SQ		1 - #8 3/4 RD
Mean Length Turn	909.3 mm (35.8 inch)		-
Copper Weight	14.4 kg (31.7 lb)		17.6 kg (38.8 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0317 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7924 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	180	10	-
No. & Size Wire	1 - #17.0 SQ	1 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.4 kg (3.1 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #12	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0363 Generator

Table 693

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	254.0 mm (10.0 inch)		254.0 mm (10.0 inch)
Slots	48		-
Coil Throw	1 - 8.2512		-
Turns/Coil	4-4-4-3		-
Turns/Pole	-		130
No. & Wire Size	8 - #14.0 SQ		1 - #8 SQ
Mean Length Turn	1104.9 mm (43.5 inch)		-
Copper Weight	30.0 kg (66.2 lb)		43.5 kg (95.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0119 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8472 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16.0 SQ	2 - #15.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 27

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0364 Generator

Table 694

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	276.9 mm (10.9 inch)		276.9 mm (10.9 inch)
Slots	48		-
Coil Throw	1 - 9.2464		-
Turns/Coil	5-4-3-1		-
Turns/Pole	-		130
No. & Wire Size	9 - #14.0 SQ		1 - #8 SQ
Mean Length Turn	1209.0 mm (47.6 inch)		-
Copper Weight	32.1 kg (70.7 lb)		45.7 kg (100.7 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00892 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9610 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16 SQ	2 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	33 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 27

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0365 Generator

Table 695

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	304.8 mm (12.0 inch)		304.8 mm (12.0 inch)
Slots	48		-
Coil Throw	1 - 9.0708		-
Turns/Coil	4-4-3-1		-
Turns/Pole	-		130
No. & Wire Size	10 - #14.0 SQ		1 - #8 SQ
Mean Length Turn	1252.2 mm (49.3 inch)		-
Copper Weight	34.0 kg (75.0 lb)		48.4 kg (106.6 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0071 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9414 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16 SQ	2 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	33 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 25

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0367 Generator

Table 696

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (2-2-2-3)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14 and 5 - #15		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	41.7 kg (91.9 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00459 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

9Y-0368 Generator

Table 697

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	223.5 mm (8.8 inch)		223.5 mm (8.8 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	4		-
Turns/Pole	-		130
No. & Wire Size	8 - #14 and 1 - #15		#8 SQ
Mean Length Turn	1079.5 mm (42.5 inch)		-
Copper Weight	34.4 kg (75.9 lb)		40.6 kg (89.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00982 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.828 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	76.2 mm (3.0 inch)	76.2 mm (3.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	7	-
No. & Size Wire	1 - #16	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	363.2 mm (14.3 inch)	325.1 mm (12.8 inch)	-
Copper Weight	3.9 kg (8.5 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 03

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

9Y-0373 Generator

Table 698

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 9.34276		-
Turns/Coil	3-3-3-2		-
Turns/Pole	-		130
No. & Wire Size	3 - #15 and 9 - #14 SQ		1 - #8 SQ
Mean Length Turn	1364.0 mm (53.7 inch)		-
Copper Weight	37.0 kg (81.6 lb)		53.7 kg (118.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0074 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.1140 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16 SQ	2 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	33 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 25

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0374 Generator

Table 699

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 9.1220		-
Turns/Coil	4-2-2-1		-
Turns/Pole	-		130
No. & Wire Size	5 - #15 and 10 - #14 SQ		1 - #8 SQ
Mean Length Turn	1480.8 mm (58.3 inch)		-
Copper Weight	42.1 kg (92.8 lb)		59.2 kg (130.6 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0051 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.2250 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16 SQ	2 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	33 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 25

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0375 Generator

Table 700

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 8.8580		-
Turns/Coil	3-2-2-1		-
Turns/Pole	-		130
No. & Wire Size	2 - #16 and 14 - #14 SQ		1 - #8 SQ
Mean Length Turn	1633.2 mm (64.3 inch)		-
Copper Weight	50.3 kg (110.8 lb)		66.5 kg (146.6 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0049 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.3678 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16 SQ	2 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	33 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 25

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0377 Generator

Table 701

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	360.7 mm (14.2 inch)		360.7 mm (14.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.5		-
Turns/Pole	-		130
No. & Wire Size	12 - #14		#8 SQ
Mean Length Turn	1386.8 mm (54.6 inch)		-
Copper Weight	36.8 kg (81.1 lb)		53.6 kg (118.2 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	10 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0195 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.115 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 02

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

9Y-0378 Generator

Table 702

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		419.1 mm (16.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2.25 (2-2-2-3)		-
Turns/Pole	-		130
No. & Wire Size	10 - #14 and 5 - #15		#8 SQ
Mean Length Turn	1470.7 mm (57.9 inch)		-
Copper Weight	41.7 kg (91.9 lb)		59.1 kg (130.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00459 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.225 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

9Y-0379 Generator

Table 703

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1645.9 mm (64.8 inch)		-
Copper Weight	52.9 kg (116.7 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #0		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.014 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.1 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

9Y-0382 Generator

Table 704

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	335.3 mm (13.2 inch)		335.3 mm (13.2 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	1.8 (1-2-2-2-2)		-
Turns/Pole	-		180
No. & Wire Size	24 - #14		#6.5 RD
Mean Length Turn	1585.0 mm (62.4 inch)		-
Copper Weight	77.5 kg (170.8 lb)		87.5 kg (193.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00288 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	1 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0383 Generator

Table 705

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	414.0 mm (16.3 inch)		414.0 mm (16.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		180
No. & Wire Size	27 - #14		#6.5 RD
Mean Length Turn	1678.9 mm (66.1 inch)		-
Copper Weight	71.8 kg (158.3 lb)		99.8 kg (220.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00218 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.44 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	1 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0384 Generator

Table 706

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		431.8 mm (17.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		180
No. & Wire Size	29 - #14		#6.5 RD
Mean Length Turn	1714.5 mm (67.5 inch)		-
Copper Weight	78.9 kg (174.0 lb)		102.5 kg (225.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #2		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00215 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.545 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	1 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0385 Generator

Table 707

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	457.2 mm (18.0 inch)		457.2 mm (18.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		180
No. & Wire Size	34 - #14		#6.5 RD
Mean Length Turn	1765.3 mm (69.5 inch)		-
Copper Weight	95.3 kg (210.0 lb)		106.6 kg (235.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #0000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00628 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.53 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	1 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 55

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0386 Generator

Table 708

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22.0 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		180
No. & Wire Size	35 - #14		#6.5 RD
Mean Length Turn	2095.5 mm (82.5 inch)		-
Copper Weight	80.3 kg (177.0 lb)		123.4 kg (272.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00574 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.732 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	1 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0389 Generator

Table 709

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	335.3 mm (13.2 inch)		335.3 mm (13.2 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	1.8 (1-2-2-2-2)		-
Turns/Pole	-		180
No. & Wire Size	24 - #14		#6.5 RD
Mean Length Turn	1585.0 mm (62.4 inch)		-
Copper Weight	77.5 kg (170.8 lb)		87.5 kg (193.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #000		-
Terminal bolt size	3/8 inch		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00288 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

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Winding Data for 9Y-0390 Generator through 9Y-0533 Generator

SMCS Code: 4450

9Y-0390 Generator

Table 710

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	414.0 mm (16.3 inch)		414.0 mm (16.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		180
No. & Wire Size	27 - #14		#6.5 RD
Mean Length Turn	1678.9 mm (66.1 inch)		-
Copper Weight	71.8 kg (158.3 lb)		99.8 kg (220.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #000		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00218 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.44 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0391 Generator

Table 711

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		431.8 mm (17.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		180
No. & Wire Size	29 - #14		#6.5 RD
Mean Length Turn	1714.5 mm (67.5 inch)		-
Copper Weight	78.9 kg (174.0 lb)		102.5 kg (225.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00215 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.545 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0392 Generator

Table 712

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	457.2 mm (18.0 inch)		457.2 mm (18.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		180
No. & Wire Size	34 - #14		#6.5 RD
Mean Length Turn	1765.3 mm (69.5 inch)		-
Copper Weight	95.3 kg (210.0 lb)		106.6 kg (235.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #0000		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00628 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.53 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 55

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0393 Generator

Table 713

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22.0 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		180
No. & Wire Size	35 - #14		#6.5 RD
Mean Length Turn	2095.5 mm (82.5 inch)		-
Copper Weight	80.3 kg (177.0 lb)		123.4 kg (272.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00574 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.732 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	240 Hz
Exciter Poles	6		16
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0394 Generator

Table 714

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	355.6 mm (14.0 inch)		368.3 mm (14.5 inch)
Slots	66		-
Coil Throw	1 - 12		-
Turns/Coil	2.4		-
Turns/Pole	-		216
No. & Wire Size	18 - #13		#6 SQ
Mean Length Turn	1676.4 mm (66.0 inch)		-
Copper Weight	103.9 kg (229.0 lb)		164.2 kg (362.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00385 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.214 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0396 Generator

Table 715

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	406.4 mm (16.0 inch)		419.1 mm (16.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	19 - #13		#6 SQ
Mean Length Turn	1821.2 mm (71.7 inch)		-
Copper Weight	98.7 kg (217.6 lb)		177.3 kg (390.9 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00329 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.375 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 19

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0398 Generator

Table 716

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1.5		-
Turns/Pole	-		216
No. & Wire Size	33 - #13		#6 SQ
Mean Length Turn	2176.8 mm (85.7 inch)		-
Copper Weight	184.4 kg (406.5 lb)		203.7 kg (449.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00203 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 29

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0400 Generator

Table 717

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	566.4 mm (22.3 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	1		-
Turns/Pole	-		180
No. & Wire Size	40 - #14		#6.5 RD
Mean Length Turn	1983.7 mm (78.1 inch)		-
Copper Weight	93.9 kg (207.0 lb)		123.4 kg (272.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00485 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.732 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	1 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0452 Generator

Table 718

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	406.4 mm (16.0 inch)		419.1 mm (16.5 inch)
Slots	72		-
Coil Throw	1 - 13		-
Turns/Coil	5		-
Turns/Pole	-		216
No. & Wire Size	2 - 3.3 mm (0.129 inch)×3.4 mm (0.133 inch)		#6 SQ
Mean Length Turn	1879.6 mm (74.0 inch)		-
Copper Weight	128.4 kg (283.0 lb)		177.3 kg (390.9 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.3840 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.375 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0454 Generator

Table 719

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	5		-
Turns/Pole	-		216
No. & Wire Size	2 - 3.7 mm (0.145 inch)×4.5 mm (0.177 inch)		#6 SQ
Mean Length Turn	2014.2 mm (79.3 inch)		-
Copper Weight	177.4 kg (391.0 lb)		203.7 kg (449.0 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.2270 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0456 Generator

Table 720

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		439.4 mm (17.3 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	5		-
Turns/Pole	-		225.5
No. & Wire Size	2 - 3.9 mm (0.155 inch)×5.5 mm (0.218 inch)		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	1996.4 mm (78.6 inch)		-
Copper Weight	231.0 kg (509.3 lb)		327.6 kg (722.3 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.1739 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.849 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

9Y-0459 Generator

Table 721

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		533.4 mm (21.0 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	4		-
Turns/Pole	-		225.5
No. & Wire Size	2 - 5.1 mm (0.201 inch)×5.6 mm (0.220 inch)		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	2176.8 mm (85.7 inch)		-
Copper Weight	263.4 kg (580.6 lb)		374.7 kg (826.0 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #1/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.119 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.970 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

9Y-0461 Generator

Table 722

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	546.1 mm (21.5 inch)		558.8 mm (22.0 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	4		-
Turns/Pole	-		225.5
No. & Wire Size	4 - 2.7 mm (0.105 inch)×4.9 mm (0.194 inch)		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	2237.7 mm (88.1 inch)		-
Copper Weight	248.3 kg (547.4 lb)		386.0 kg (851.0 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #2/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.132 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.0 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

9Y-0463 Generator

Table 723

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	622.3 mm (24.5 inch)		635.0 mm (25.0 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	7		-
Turns/Pole	-		225.5
No. & Wire Size	2 - 3.0 mm (0.117 inch)×5.5 mm (0.218 inch)		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	2407.9 mm (94.8 inch)		-
Copper Weight	291.7 kg (643.0 lb)		416.8 kg (919.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	6 - #2/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.09538 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.08 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 44⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

9Y-0513 Generator

Table 724

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	330.2 mm (13.0 inch)		342.9 mm (13.5 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.6		-
Turns/Pole	-		216
No. & Wire Size	29 - #14		#6 SQ
Mean Length Turn	1630.7 mm (64.2 inch)		-
Copper Weight	85.7 kg (189.0 lb)		157.8 kg (348.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00857 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.166 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	2 - #16	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0516 Generator

Table 725

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	355.6 mm (14.0 inch)		368.3 mm (14.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	3		-
Turns/Pole	-		216
No. & Wire Size	15 - #13		#6 SQ
Mean Length Turn	1752.6 mm (69.0 inch)		-
Copper Weight	112.9 kg (249.0 lb)		164.2 kg (362.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00647 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.214 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	2 - #16	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 60

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0519 Generator

Table 726

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	381.0 mm (15.0 inch)		393.7 mm (15.5 inch)
Slots	84		-
Coil Throw	1 - 16		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	31 - #13		#6 SQ
Mean Length Turn	1828.8 mm (72.0 inch)		-
Copper Weight	113.4 kg (250.0 lb)		170.8 kg (376.5 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #2/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00627 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	2 - #16	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0521 Generator

Table 727

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		444.5 mm (17.5 inch)
Slots	72		-
Coil Throw	1 - 15		-
Turns/Coil	1		-
Turns/Pole	-		216
No. & Wire Size	39 - #13		#6 SQ
Mean Length Turn	1963.4 mm (77.3 inch)		-
Copper Weight	144.2 kg (318.0 lb)		183.7 kg (405.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #3/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00461 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.380 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	2 - #16	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0523 Generator

Table 728

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	508.0 mm (20.0 inch)		520.7 mm (20.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	22 - #13		#6 SQ
Mean Length Turn	2082.8 mm (82.0 inch)		-
Copper Weight	130.6 kg (288.0 lb)		203.7 kg (449.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00360 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.503 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	2 - #16	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 60

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-0525 Generator

Table 729

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22.0 inch)		571.5 mm (22.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		216
No. & Wire Size	26 - #13		#6 SQ
Mean Length Turn	2049.8 mm (80.7 inch)		-
Copper Weight	152.0 kg (335.0 lb)		202.8 kg (447.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #4/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00306 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.600 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	152.4 mm (6.0 inch)	152.4 mm (6.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	9	-
No. & Size Wire	1 - #15.5	1 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	515.6 mm (20.3 inch)	431.8 mm (17.0 inch)	-
Copper Weight	6.0 kg (13.3 lb)	3.2 kg (7.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 60

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-0527 Generator

Table 730

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	419.1 mm (16.5 inch)		439.4 mm (17.3 inch)
Slots	72		-
Coil Throw	1 - 13		-
Turns/Coil	2		-
Turns/Pole	-		225.5
No. & Wire Size	28 - #13		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	1943.1 mm (76.5 inch)		-
Copper Weight	186.4 kg (411.0 lb)		327.6 kg (722.3 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00316 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.849 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

9Y-0529 Generator

Table 731

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		533.4 mm (21.0 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	2		-
Turns/Pole	-		225.5
No. & Wire Size	44 - #13		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	2176.8 mm (85.7 inch)		-
Copper Weight	273.1 kg (602.0 lb)		374.7 kg (826.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #1/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00192 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.970 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

9Y-0531 Generator

Table 732

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	571.5 mm (22.5 inch)		584.2 mm (23.0 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	1.6		-
Turns/Pole	-		225.5
No. & Wire Size	42 - #13		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	2440.9 mm (96.1 inch)		-
Copper Weight	234.1 kg (516.0 lb)		393.7 kg (868.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #2/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00188 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.02 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

9Y-0533 Generator

Table 733

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	635.0 mm (25.0 inch)		647.7 mm (25.5 inch)
Slots	84		-
Coil Throw	1 - 17		-
Turns/Coil	1		-
Turns/Pole	-		225.5
No. & Wire Size	60 - #14		3.7 mm (0.145 inch)×7.7 mm (0.302 inch) HF
Mean Length Turn	2669.5 mm (105.1 inch)		-
Copper Weight	253.6 kg (559.0 lb)		422.3 kg (931.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #3/0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00135 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.095 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

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Winding Data for 9Y-1408 Generator through 9Y-9422 Generator

SMCS Code: 4450

9Y-1408 Generator

Table 734

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	736.6 mm (29.0 inch)		749.3 mm (29.5 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		147.5
No. & Wire Size	2 - #5 1/2 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2288.5 mm (90.1 inch)		-
Copper Weight	179.6 kg (396.0 lb)		69.9 kg (154.2 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		6 in Series
Line Leads (No. & Size)	36 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00446 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.161 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	320	8	-
No. & Size Wire	2 - #18.5 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	-	436.9 mm (17.2 inch)	-
Copper Weight	14.8 kg (32.6 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		

(continued)

(Table 734, contd)

MAIN STATOR AND ROTOR WINDING DATA			
Connection ⁽²⁾	Series/Parallel	2 Parallel Star	-
Line Leads	2 - #14 (75 inch) and 2 - #14 (95 inch)	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 06

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram F

9Y-1412 Generator

Table 735

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	342.9 mm (13.5 inch)		342.9 mm (13.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	3.50 (3-4-3-4)		-
Turns/Pole	-		96
No. & Wire Size	1 - #16 and 6 - #15 SQ		1 - #9 SQ
Mean Length Turn	1163.3 mm (45.8 inch)		-
Copper Weight	19.9 kg (43.8 lb)		28.6 kg (63.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0131 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.8683 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	180	10	-
No. & Size Wire	1 - #17.0 SQ	1 - #14.5 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.4 kg (3.1 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14 (44 inch)	3 - #12 (5.5 inch)	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 04

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y - 1423 Generator

Table 736

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	355.6 mm (14.0 inch)		368.3 mm (14.5 inch)
Slots	60		-
Coil Throw	1 - 11		-
Turns/Coil	7		-
Turns/Pole	-		216
No. & Wire Size	2 - 2.5 mm (0.098 inch)×4.5 mm (0.177 inch)		#6 SQ
Mean Length Turn	1709.4 mm (67.3 inch)		-
Copper Weight	142.5 kg (314.1 lb)		164.2 kg (362.0 lb)
Inside Connection ⁽¹⁾	1 Series Star		4 in Series
Line Leads (No. & Size)	6 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.4050 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.214 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	1	-
Slots (Coils)	6	36	-
Turns (Coils)	140	8	-
No. & Size Wire	1 - #15.5	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14 (39 inch)	3 - #10 (12 inch)	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 12

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y - 1425 Generator

Table 737

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	495.3 mm (19.5 inch)		495.3 mm (19.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	2		-
Turns/Pole	-		130
No. & Wire Size	18 - #14		#8 SQ
Mean Length Turn	1645.9 mm (64.8 inch)		-
Copper Weight	52.9 kg (116.7 lb)		66.4 kg (146.4 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.014 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.40 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	6	2	-
Slots (Coils)	6	36	-
Turns (Coils)	150	8	-
No. & Size Wire	1 - #16	2 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	388.6 mm (15.3 inch)	350.5 mm (13.8 inch)	-
Copper Weight	4.2 kg (9.1 lb)	2.2 kg (4.8 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

9Y-1427 Generator

Table 738

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	335.3 mm (13.2 inch)		335.3 mm (13.2 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	1.8 (1-2-2-2-2)		-
Turns/Pole	-		180
No. & Wire Size	24 - #14		#6.5 RD
Mean Length Turn	1585.0 mm (62.4 inch)		-
Copper Weight	77.5 kg (170.8 lb)		87.5 kg (193.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #000		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00288 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.27 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	160 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y - 1428 Generator

Table 739

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	414.0 mm (16.3 inch)		414.0 mm (16.3 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		180
No. & Wire Size	27 - #14		#6.5 RD
Mean Length Turn	1678.9 mm (66.1 inch)		-
Copper Weight	71.8 kg (158.3 lb)		99.8 kg (220.0 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #000		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00218 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.44 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	160 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-1429 Generator

Table 740

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	431.8 mm (17.0 inch)		431.8 mm (17.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		180
No. & Wire Size	29 - #14		#6.5 RD
Mean Length Turn	1714.5 mm (67.5 inch)		-
Copper Weight	78.9 kg (174.0 lb)		102.5 kg (225.9 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00215 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.545 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	160 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 47

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y - 1430 Generator

Table 741

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	457.2 mm (18.0 inch)		457.2 mm (18.0 inch)
Slots	60		-
Coil Throw	1 - 12		-
Turns/Coil	1.4 (1-2-1-2-1)		-
Turns/Pole	-		180
No. & Wire Size	34 - #14		#6.5 RD
Mean Length Turn	1765.3 mm (69.5 inch)		-
Copper Weight	95.3 kg (210.0 lb)		106.6 kg (235.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	12 - #0000		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00628 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.53 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	160 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 55

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-1431 Generator

Table 742

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	558.8 mm (22.0 inch)		566.4 mm (22.3 inch)
Slots	60		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		180
No. & Wire Size	35 - #14		#6.5 RD
Mean Length Turn	2095.5 mm (82.5 inch)		-
Copper Weight	80.3 kg (177.0 lb)		123.4 kg (272.0 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	24 - #1		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00574 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.732 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	160 Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	25.4 mm (1.0 inch)
Coils/Group	1	1	1
Slots (Coils)	6	36	48
Turns (Coils)	140	8	12
No. & Size Wire	1 - #15.5	2 - #16	4 - #18
Coil Throw	1 - 2	1 - 6	1 - 4
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	464.8 mm (18.3 inch)	208.3 mm (8.2 inch)
Copper Weight	5.2 kg (11.5 lb)	2.9 kg (6.4 lb)	1.8 kg (4.0 lb)
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	1 Series
Line Leads	1 - #14	3 - #10	3 - #14

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 41

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-2934 Generator

Table 743

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	762.0 mm (30.0 inch)		774.7 mm (30.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		195.5
No. & Wire Size	6 - #5 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2677.2 mm (105.4 inch)		-
Copper Weight	216.7 kg (477.7 lb)		398.3 kg (878.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #00		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00137 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.15 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

9Y-2935 Generator

Table 744

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	762.0 mm (30.0 inch)		774.7 mm (30.5 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		195.5
No. & Wire Size	6 - #5 SQ		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2677.2 mm (105.4 inch)		-
Copper Weight	216.7 kg (477.7 lb)		398.3 kg (878.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #00		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00137 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.15 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

9Y-3872 Generator

Table 745

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	660.4 mm (26.0 inch)		673.1 mm (26.5 inch)
Slots	84		-
Coil Throw	1 - 14		-
Turns/Coil	1		-
Turns/Pole	-		174
No. & Wire Size	4 - 3.8 mm (0.148 inch)×3.9 mm (0.153 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2423.2 mm (95.4 inch)		-
Copper Weight	195.1 kg (430.1 lb)		320.1 kg (705.6 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #00		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00209 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

9Y-3873 Generator

Table 746

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	660.4 mm (26.0 inch)		673.1 mm (26.5 inch)
Slots	84		-
Coil Throw	1 - 17		-
Turns/Coil	1		-
Turns/Pole	-		174
No. & Wire Size	6 - 3.8 mm (0.148 inch)×3.9 mm (0.153 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2608.6 mm (102.7 inch)		-
Copper Weight	195.1 kg (430.1 lb)		320.1 kg (705.6 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	48 - #00		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00209 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.895 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18 SQ	3 - #16 SQ	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	3 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 43

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram I

9Y-3876 Generator

Table 747

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	424.2 mm (16.7 inch)		431.8 mm (17.0 inch)
Slots	84		-
Coil Throw	1 - 19		-
Turns/Coil	1.00		-
Turns/Pole	-		160
No. & Wire Size	18 - #13		1 - #7
Mean Length Turn	1818.6 mm (71.6 inch)		-
Copper Weight	65.4 kg (144.2 lb)		98.6 kg (217.3 lb)
Inside Connection ⁽¹⁾	4/2 Parallel Star		4 in Series
Line Leads (No. & Size)	20 - #000		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0024 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.1792 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	140	7	-
No. & Size Wire	1 - #15.5	2 - #15.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.7 kg (6.0 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14 (78 inch)	3 - #8 (12 inch)	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 01

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram A

9Y-7180 Generator

Table 748

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	584.2 mm (23.0 inch)		596.9 mm (23.5 inch)
Slots	72		-
Coil Throw	1 - 10		-
Turns/Coil	3		-
Turns/Pole	-		147.5
No. & Wire Size	2 - 5.1 mm (0.201 inch)×5.6 mm (0.220 inch)		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2014.2 mm (79.3 inch)		-
Copper Weight	224.9 kg (495.9 lb)		49.1 kg (108.2 lb)
Inside Connection ⁽¹⁾	6 Parallel Star		6 in Series
Line Leads (No. & Size)	36 - #2		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0026 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.9625 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	80 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	88.9 mm (3.5 inch)	88.9 mm (3.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	8	-
No. & Size Wire	2 - #17 and 1 - #18	3 - #16	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	355.6 mm (14.0 inch)	436.9 mm (17.2 inch)	-
Copper Weight	14.0 kg (30.9 lb)	6.4 kg (14.0 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14	6 - #10	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 06

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

9Y-9374 Generator

Table 749

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	215.9 mm (8.5 inch)		215.9 mm (8.5 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	7.00		-
Turns/Pole	-		96
No. & Wire Size	2 - #14 and 1 - #16		1 - #8 3/4 RD
Mean Length Turn	909.3 mm (35.8 inch)		-
Copper Weight	14.8 kg (32.7 lb)		17.6 kg (38.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #6		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.1718 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7924 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	180	10	-
No. & Size Wire	1 - #17	1 - #14.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.4 kg (3.1 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14 (44 inch)	3 - #12 (5.5 inch)	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-9375 Generator

Table 750

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	261.6 mm (10.3 inch)		261.6 mm (10.3 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	5.75 (6-6-6-5)		-
Turns/Pole	-		96
No. & Wire Size	2 - #13 and 1 - #16		1 - #9
Mean Length Turn	1000.8 mm (39.4 inch)		-
Copper Weight	16.4 kg (36.1 lb)		24.0 kg (52.9 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.1272 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7715 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	180	10	-
No. & Size Wire	1 - #17	1 - #14.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.4 kg (3.1 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14 (44 inch)	3 - #12 (5.5 inch)	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-9416 Generator

Table 751

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	182.9 mm (7.2 inch)		182.9 mm (7.2 inch)
Slots	48		-
Coil Throw	1 - 10		-
Turns/Coil	8.00		-
Turns/Pole	-		96
No. & Wire Size	1 - #15 and 2 - #16		1 - #8 3/4 RD
Mean Length Turn	843.3 mm (33.2 inch)		-
Copper Weight	12.4 kg (27.4 lb)		16.1 kg (35.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #8		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.2297 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7237 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	180	10	-
No. & Size Wire	1 - #17	1 - #14.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.4 kg (3.1 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14 (44 inch)	3 - #12 (5.5 inch)	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 21

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-9417 Generator

Table 752

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	182.9 mm (7.2 inch)		182.9 mm (7.2 inch)
Slots	48		-
Coil Throw	1 - 10.9542		-
Turns/Coil	13-8-8		-
Turns/Pole	-		96
No. & Wire Size	1 - #15 and 2 - #16		1 - #8 3/4 RD
Mean Length Turn	883.9 mm (34.8 inch)		-
Copper Weight	12.7 kg (27.9 lb)		16.1 kg (35.4 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #8		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.2333 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7237 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	180	10	-
No. & Size Wire	1 - #17	1 - #14.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.4 kg (3.1 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14 (44 inch)	3 - #12 (5.5 inch)	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 26

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-9418 Generator

Table 753

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	215.9 mm (8.5 inch)		215.9 mm (8.5 inch)
Slots	48		-
Coil Throw	1 - 10.9446		-
Turns/Coil	13-7-7		-
Turns/Pole	-		96
No. & Wire Size	2 - #14 and 1 - #16		1 - #8 3/4 RD
Mean Length Turn	950.0 mm (37.4 inch)		-
Copper Weight	14.9 kg (32.9 lb)		17.6 kg (38.8 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #6		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.1731 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7924 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	180	10	-
No. & Size Wire	1 - #17	1 - #14.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.4 kg (3.1 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14 (44 inch)	3 - #12 (5.5 inch)	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 26

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-9419 Generator

Table 754

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	261.6 mm (10.3 inch)		261.6 mm (10.3 inch)
Slots	48		-
Coil Throw	1 - 11.1144		-
Turns/Coil	11-6-5		-
Turns/Pole	-		96
No. & Wire Size	2 - #13 and 1 - #15		1 - #9
Mean Length Turn	1049.0 mm (41.3 inch)		-
Copper Weight	17.2 kg (37.9 lb)		24.0 kg (52.9 lb)
Inside Connection ⁽¹⁾	2 Parallel Star		4 in Series
Line Leads (No. & Size)	4 - #4		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.1214 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.7293 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	50.8 mm (2.0 inch)	50.8 mm (2.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	180	10	-
No. & Size Wire	1 - #17	1 - #14.5	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	315.0 mm (12.4 inch)	254.0 mm (10.0 inch)	-
Copper Weight	2.7 kg (6.0 lb)	1.4 kg (3.1 lb)	-
Insulation	Heavy Nytherm		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14 (44 inch)	3 - #12 (5.5 inch)	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 26

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram D

9Y-9421 Generator

Table 755

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	482.6 mm (19.0 inch)		495.3 mm (19.5 inch)
Slots	60		-
Coil Throw	1 - 13		-
Turns/Coil	3.00		-
Turns/Pole	-		216
No. & Wire Size	14 - #14		#6 SQ
Mean Length Turn	1993.9 mm (78.5 inch)		-
Copper Weight	94.8 kg (208.9 lb)		196.9 kg (434.0 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #0		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.00963 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		1.476 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	90 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	6		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	127.0 mm (5.0 inch)	127.0 mm (5.0 inch)	-
Coils/Group	1	2	-
Slots (Coils)	6	36	-
Turns (Coils)	125	6	-
No. & Size Wire	1 - #15	2 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	464.8 mm (18.3 inch)	406.4 mm (16.0 inch)	-
Copper Weight	5.2 kg (11.5 lb)	2.8 kg (5.9 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	2 - #14 (44 inch)	3 - #10 (26 inch)	-

(1) See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

(2) See Specifications, "Connection Diagrams for Exciter" Connection Diagram B

9Y-9422 Generator

Table 756

MAIN STATOR AND ROTOR WINDING DATA			
ITEM	STATOR		ROTOR
Stack Height	520.7 mm (20.5 inch)		538.5 mm (21.2 inch)
Slots	72		-
Coil Throw	1 - 14		-
Turns/Coil	2		-
Turns/Pole	-		175
No. & Wire Size	16 - #12		3.7 mm (0.144 inch)×7.3 mm (0.288 inch)
Mean Length Turn	2115.8 mm (83.3 inch)		-
Copper Weight	146.2 kg (322.3 lb)		275.5 kg (607.4 lb)
Inside Connection ⁽¹⁾	4 Parallel Star		4 in Series
Line Leads (No. & Size)	16 - #000		-
Terminal bolt size	3/8 in		-
Low Voltage connected line resistance at 25 ° C (77 ° F)	0.0043 ohms		-
Field lead resistance at 25 ° C (77 ° F)	-		0.795 ohms
EXCITER WINDING DATA			
Exciter Frequency (Hz)	120 Hz	Permanent Magnet Frequency	- Hz
Exciter Poles	8		
ITEM	STATOR (FIELD)	ROTOR (ARMATURE)	Permanent Magnet Stator
Stack Length	63.5 mm (2.5 inch)	63.5 mm (2.5 inch)	-
Coils/Group	1	2	-
Slots (Coils)	8	48	-
Turns (Coils)	160	7	-
No. & Size Wire	1 - #14	3 - #15	-
Coil Throw	1 - 2	1 - 6	-
Mean Length Turn (Calc.)	330.2 mm (13.0 inch)	386.1 mm (15.2 inch)	-
Copper Weight	11.1 kg (24.5 lb)	6.2 kg (13.7 lb)	-
Insulation	Heavy Polyester Polyamide Imide		
Connection ⁽²⁾	Series	2 Parallel Star	-
Line Leads	4 - #14 (25 inch)	6 - #10 (12 inch)	-

⁽¹⁾ See Specifications, "Connection Diagrams for Main Stator and Main Rotor" Connection Diagram 10

⁽²⁾ See Specifications, "Connection Diagrams for Exciter" Connection Diagram C

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Connection Diagrams for Main Stator and Main Rotor

SMCS Code: 7566

Connection Diagram 01

A,B,C&D=PARALLEL SPLICE CONNECTORS
S=START LEAD OF COIL GROUP
F=FINISH LEAD OF COIL GROUP
NOTE:#26 REGULATOR LEAD NOT REQUIRED
FOR VR-3 OR VR-4 REGULATOR. IF
REQUIRED CONNECT PER DOTTED
LOCATION ON DIAGRAM

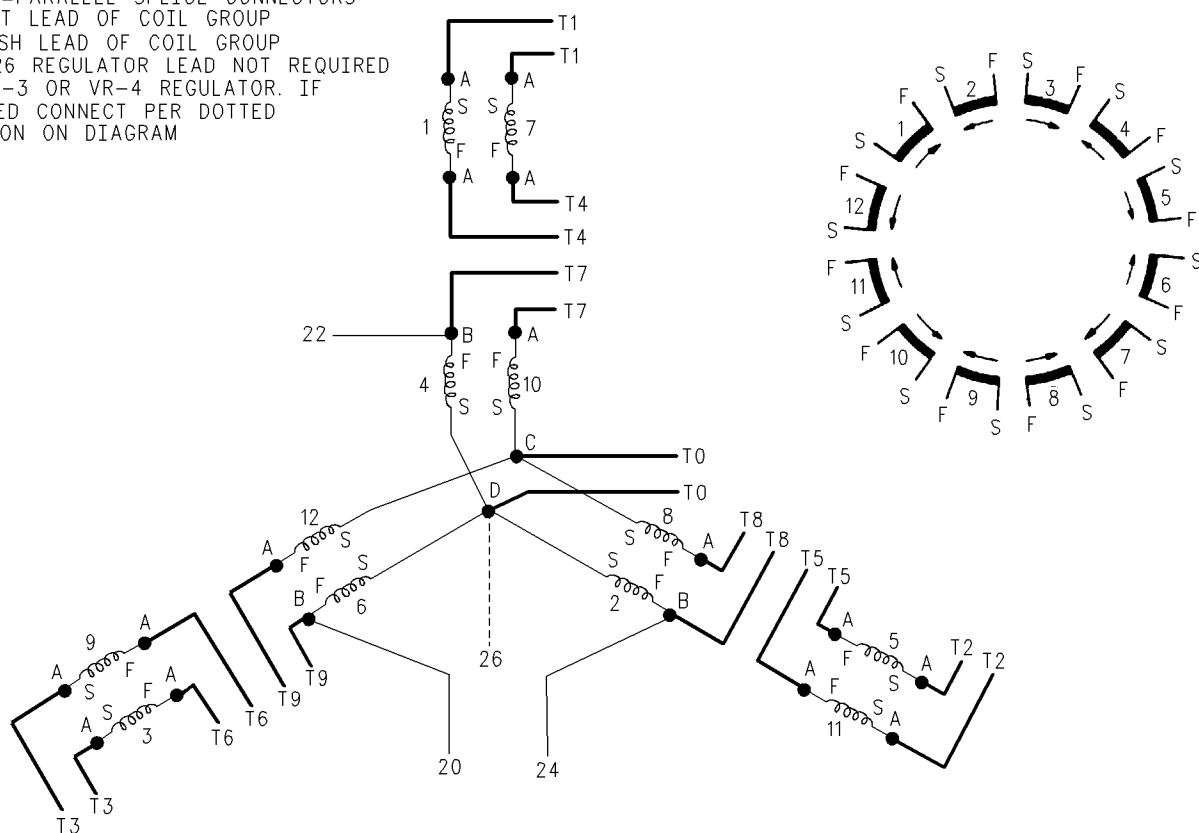


Illustration 13

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Connection Diagram 02

S=START LEAD OF COIL GROUP
F=FINISH LEAD OF COIL GROUP
NOTE:#26 REGULATOR LEAD NOT REQUIRED
FOR VR-3 OR VR-4 REGULATOR. IF
REQUIRED CONNECT PER DOTTED
LOCATION ON DIAGRAM.

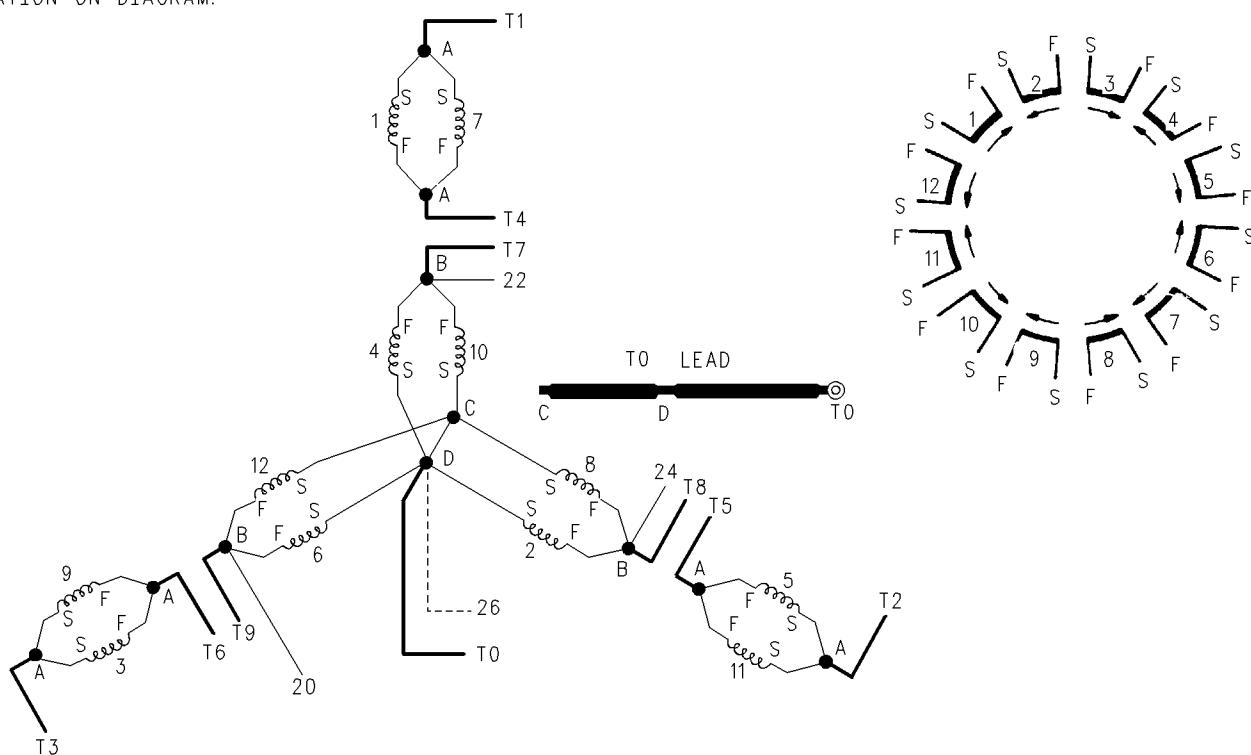


Illustration 14

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Connection Diagram 03

A=PARALLEL SPLICE CONNECTORS
S=START LEAD OF COIL GROUP
F=FINISH LEAD COIL GROUP

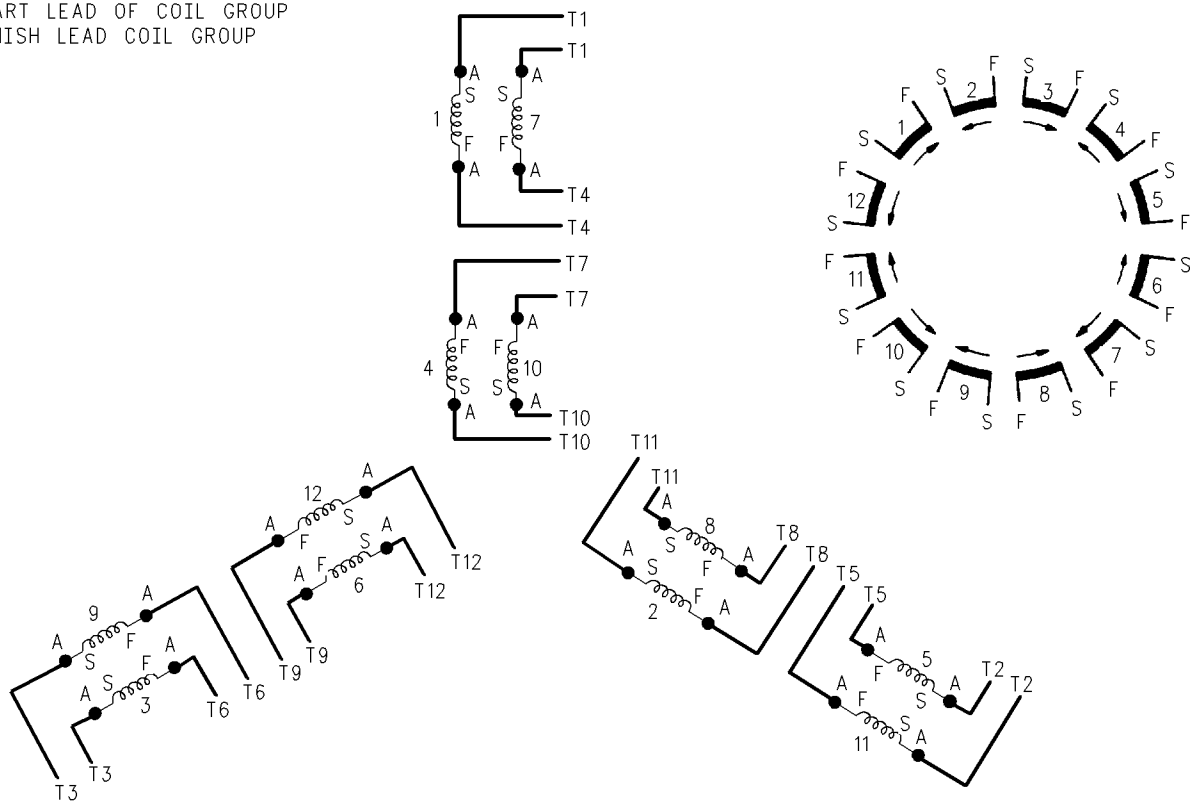
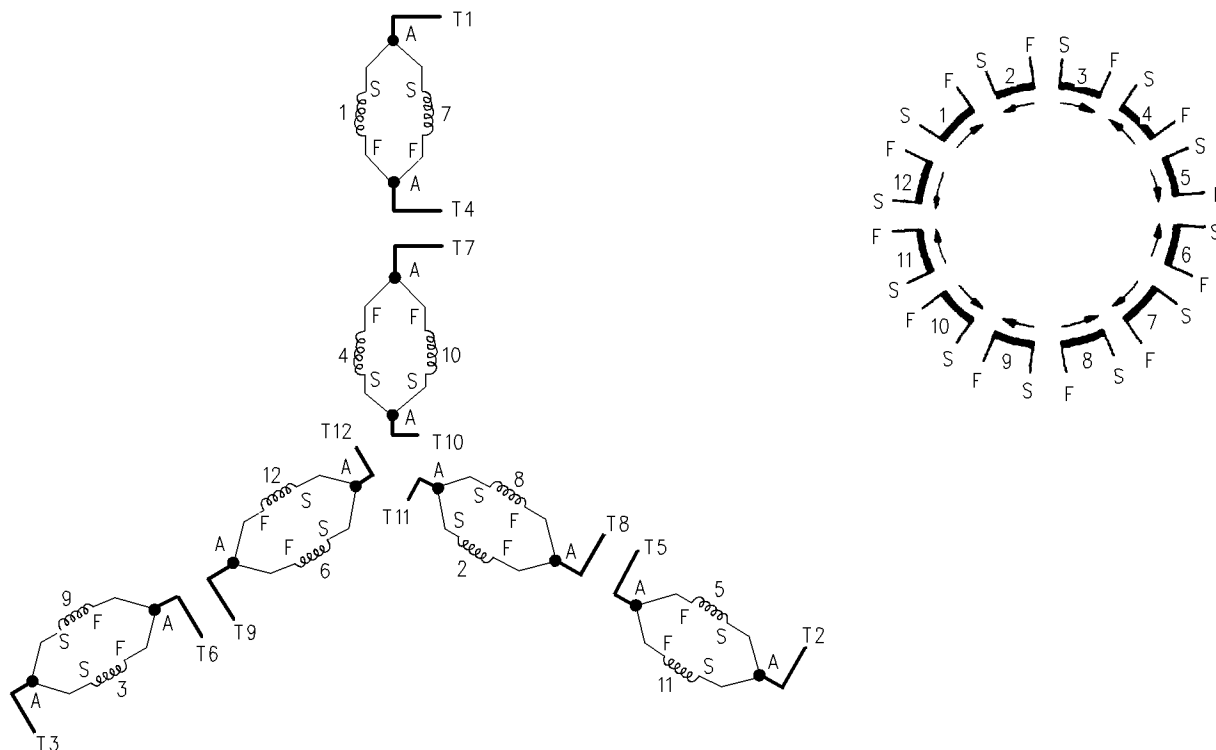


Illustration 15

g00720188

Connection Diagram 04

A=PARALLEL SPLICE CONNECTORS
S=START LEAD OF COIL GROUP
F=FINISH LEAD COIL GROUP



Connection Diagram 05

A&C=PARALLEL SPLICE CONNECTORS

S=START LEAD OF COIL GROUP

F=FINISH LEAD OF COIL GROUP

NOTE: #26 REGULATOR LEAD NOT REQUIRED FOR
VR-3 OR VR-4 REGULATOR, IF REQUIRED
CONNECT PER DOTTED LOCATION ON DIAGRAM

NOTE: TAPPED CONNECTIONS 20, 22 AND 24 TO
BE CONNECTED

34	TURNS	FROM NEUTRAL	FOR 364	FRAMES
26	TURNS	FROM NEUTRAL	FOR 365	FRAMES
20	TURNS	FROM NEUTRAL	FOR 367	FRAMES
16	TURNS	FROM NEUTRAL	FOR 368	FRAMES
26	TURNS	FROM NEUTRAL	FOR 444	FRAMES
18	TURNS	FROM NEUTRAL	FOR 445	FRAMES
15	TURNS	FROM NEUTRAL	FOR 446	FRAMES

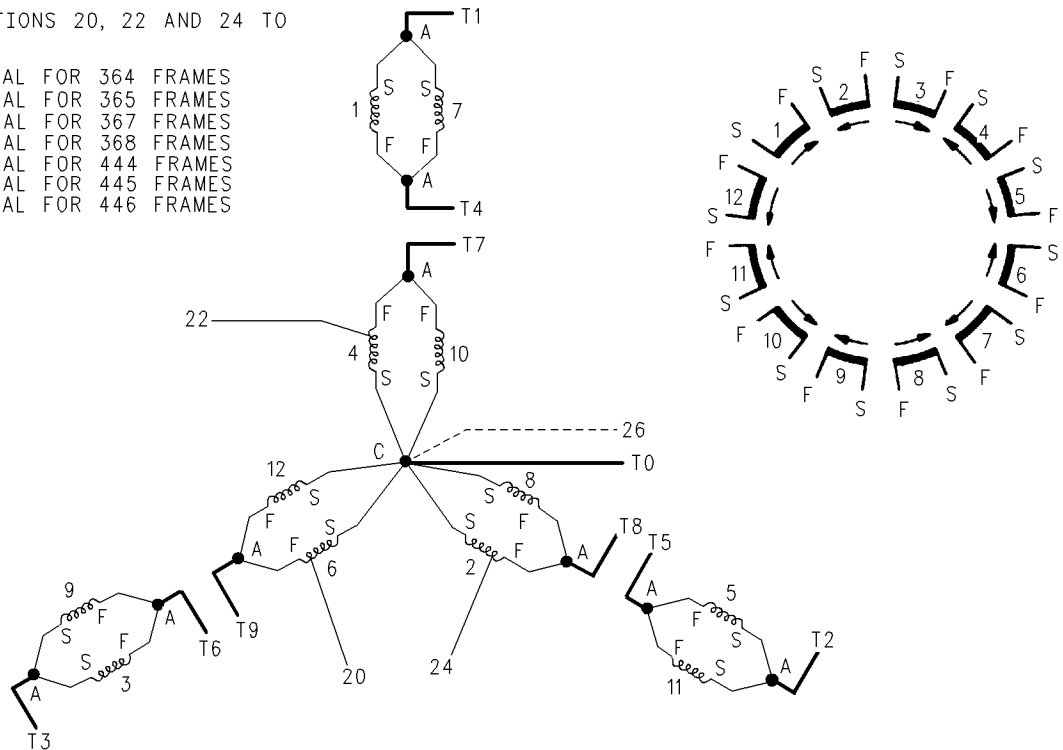


Illustration 17

g00720191

Connection Diagram 06

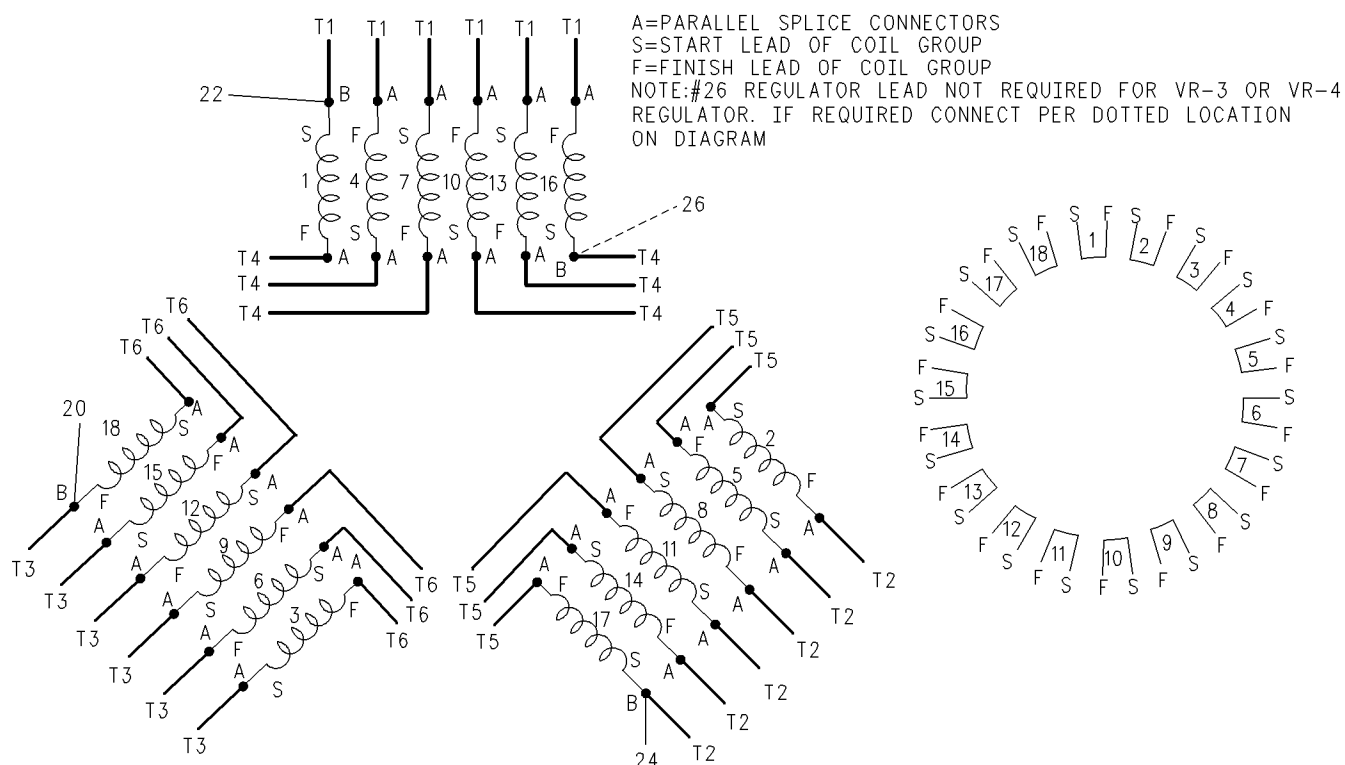


Illustration 18

g00720190

Connection Diagram 07

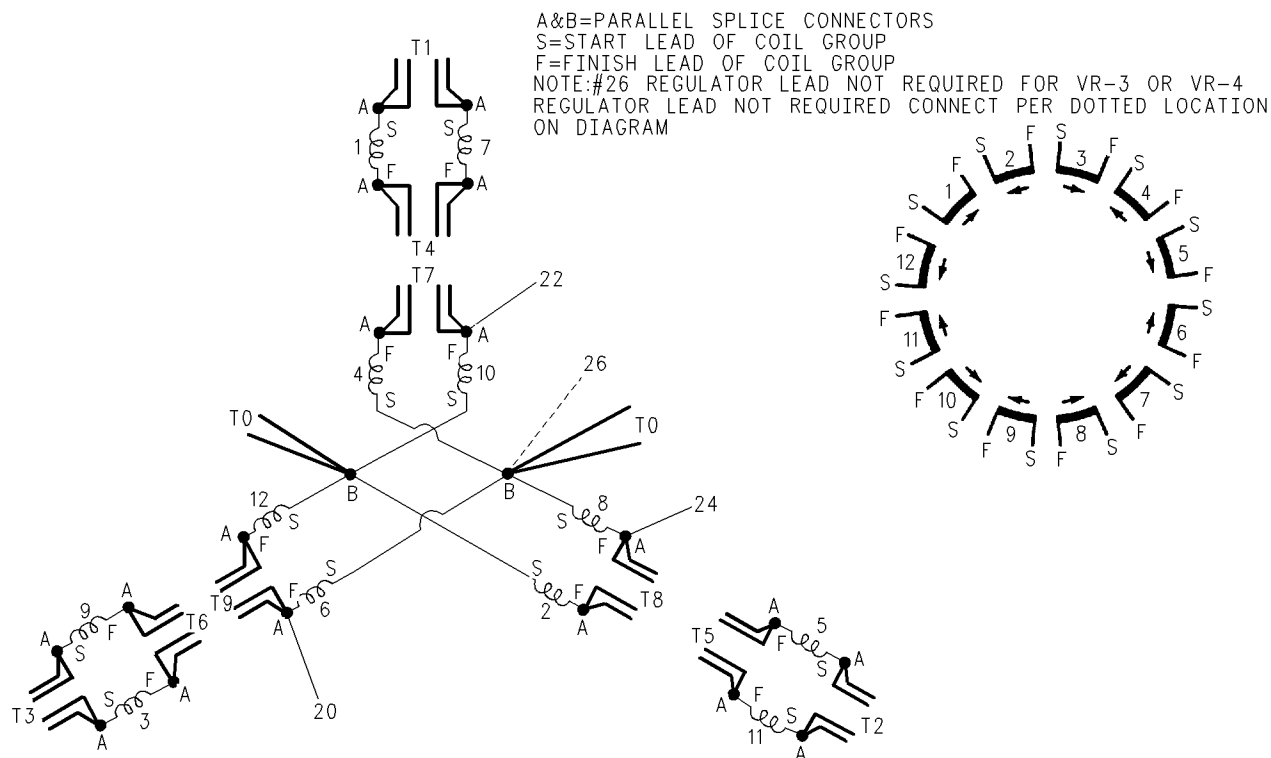


Illustration 19

g00720192

Connection Diagram 08

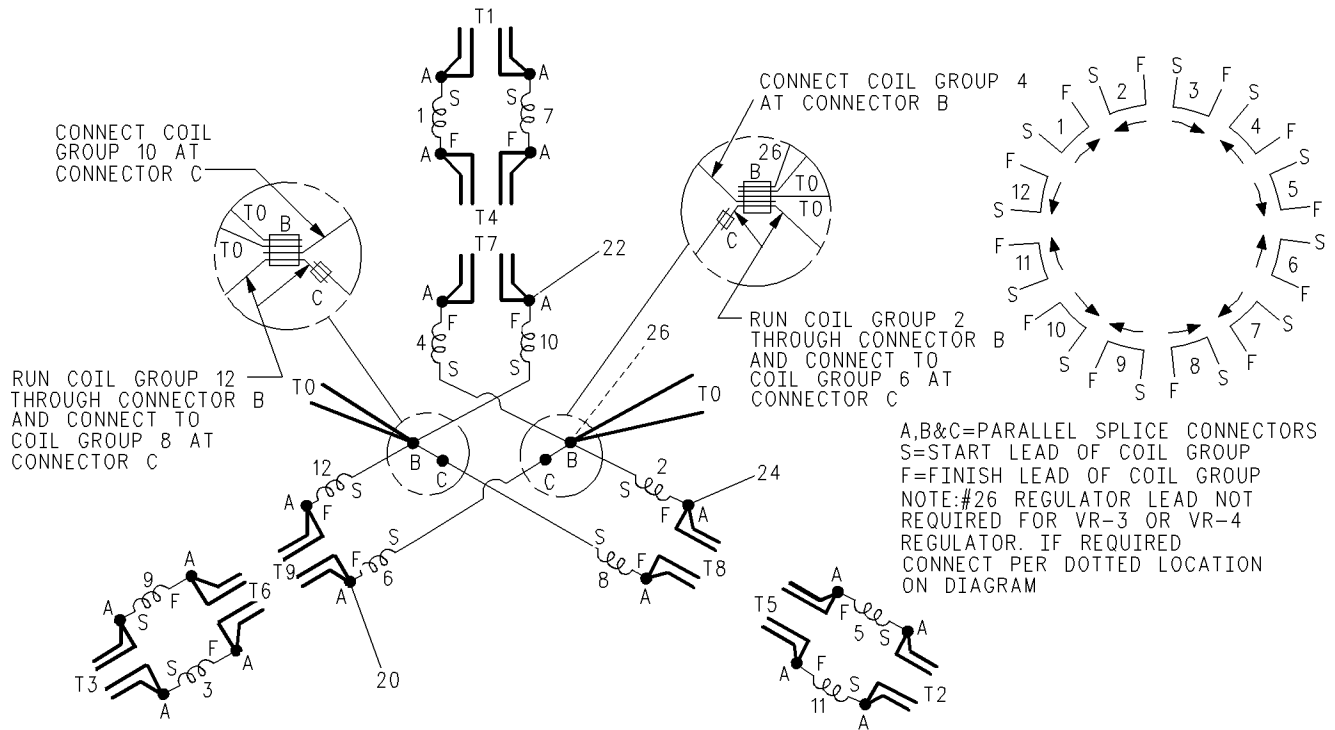


Illustration 20

g00720193

Connection Diagram 09

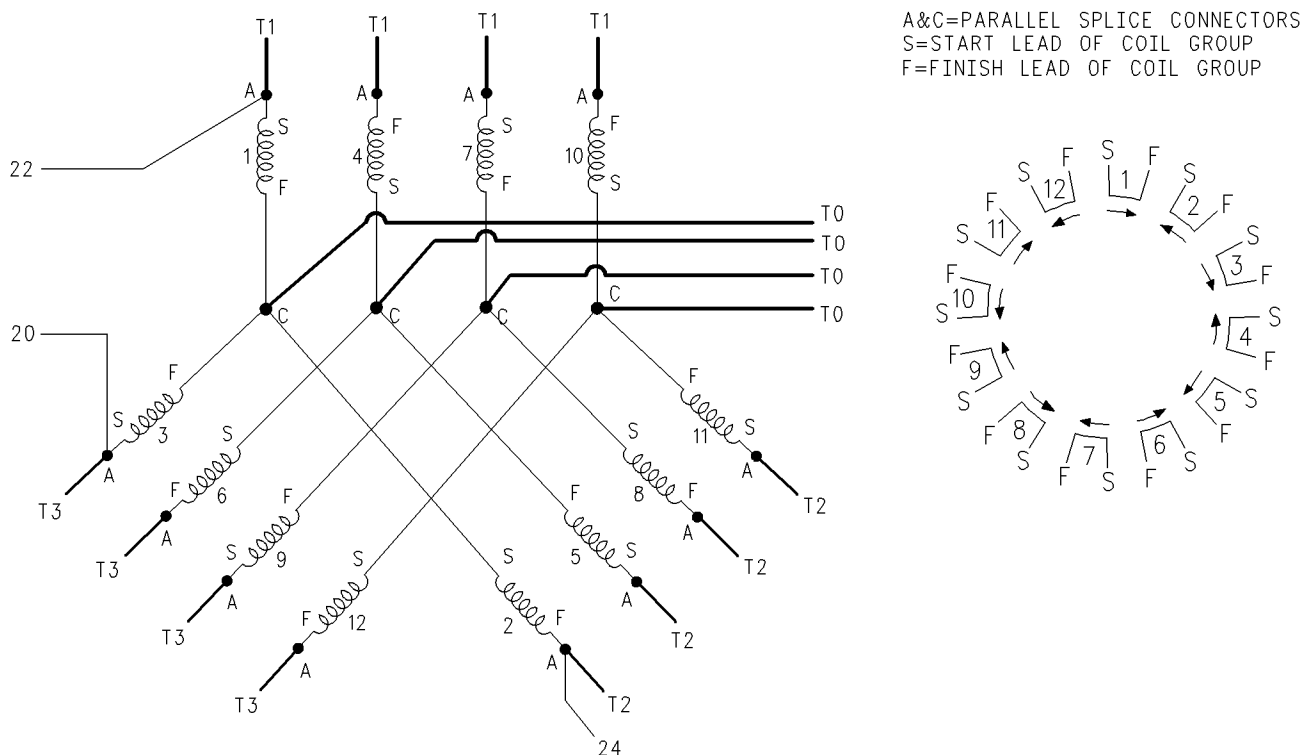
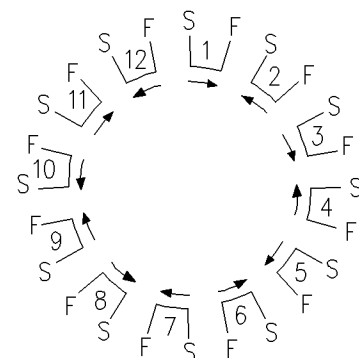
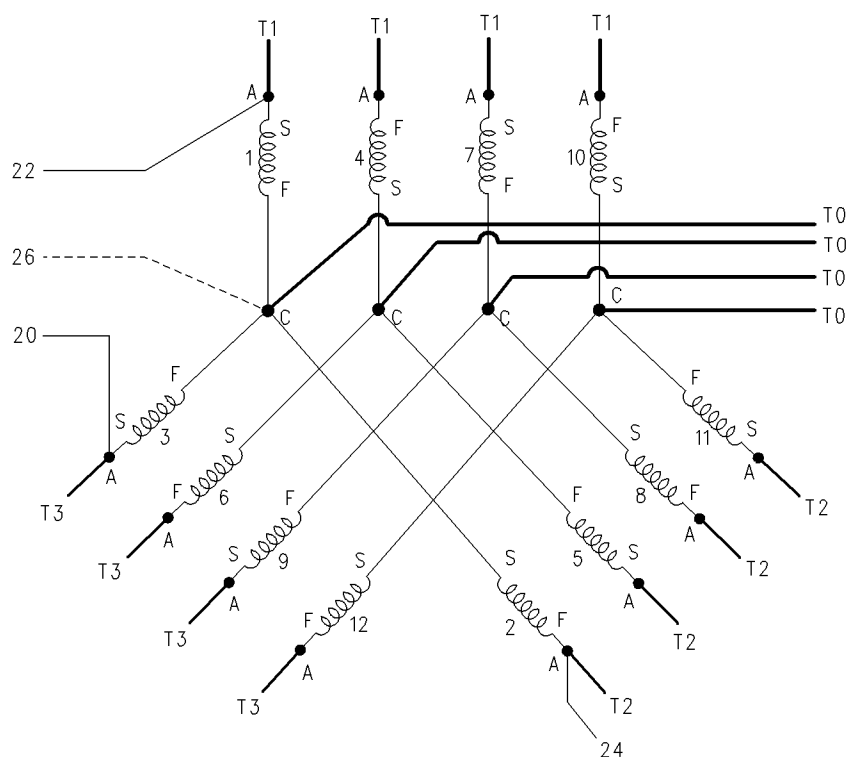


Illustration 21

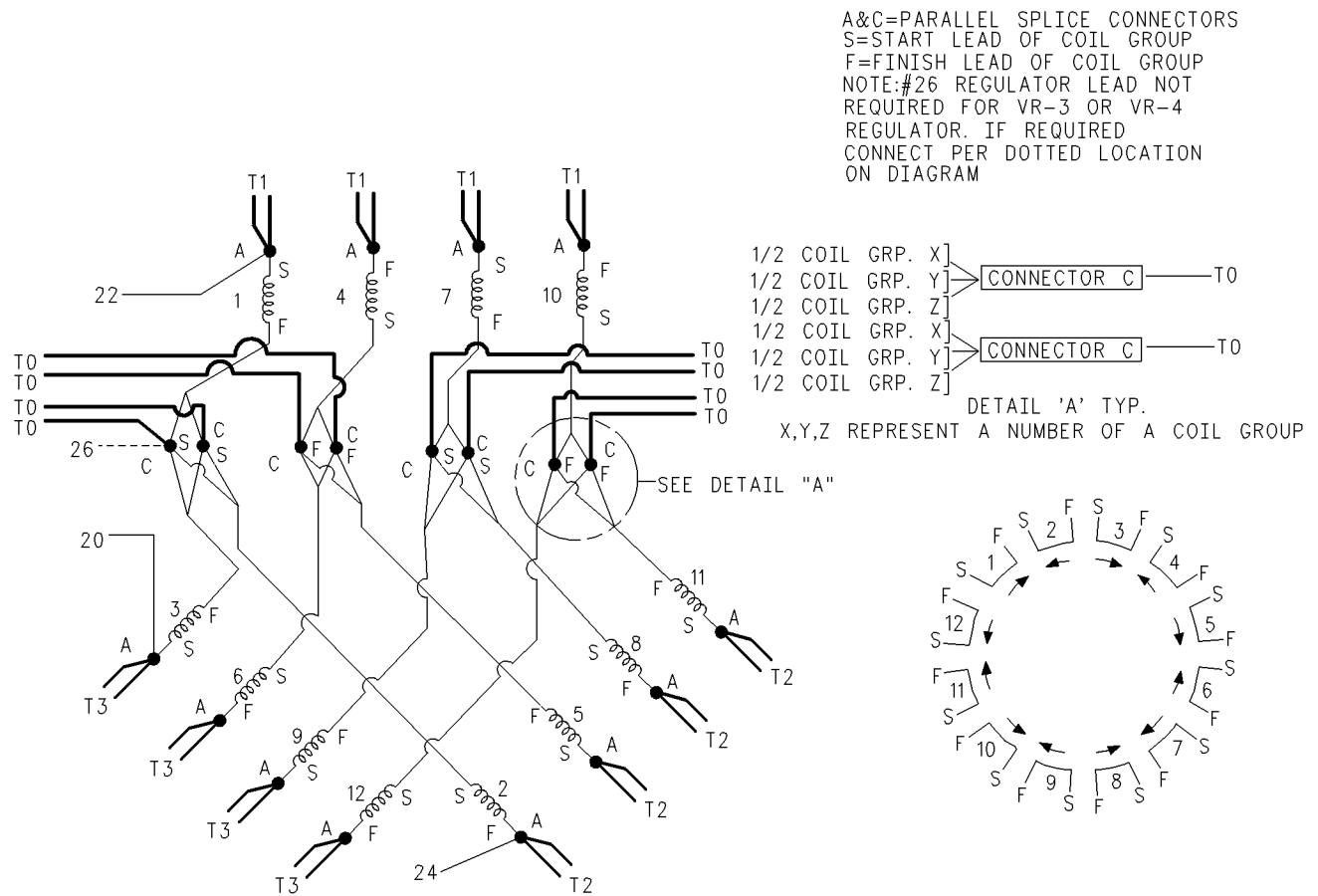
g00720194

Connection Diagram 10



A&C=PARALLEL SPLICE CONNECTORS
S=START LEAD OF COIL GROUP
F=FINISH LEAD OF COIL GROUP
NOTE:#26 REGULATOR LEAD NOT
REQUIRED FOR VR-3 OR VR-4
REGULATOR. IF REQUIRED
CONNECT PER DOTTED LOCATION
ON DIAGRAM

Connection Diagram 11



Connection Diagram 12

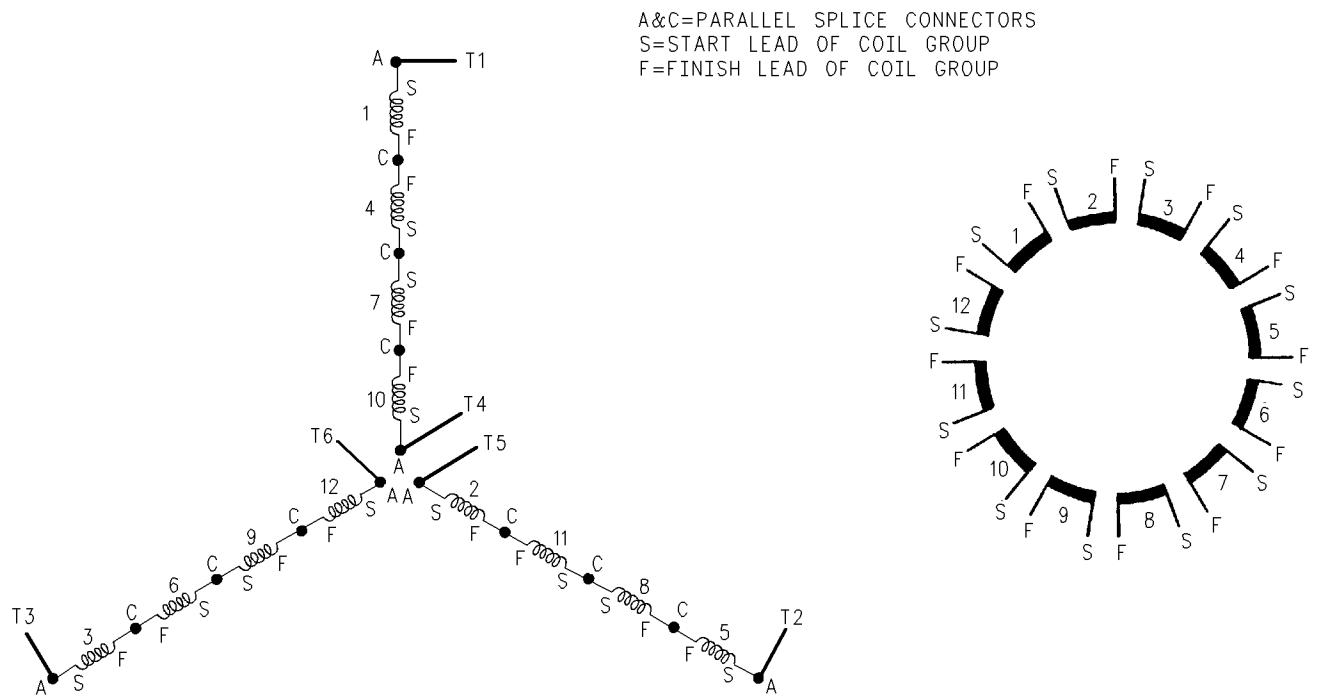


Illustration 24

g00720197

Connection Diagram 13

A,C&D=PARALLEL SPLICE CONNECTORS

S=START LEAD OF COIL GROUP

F=FINISH LEAD OF COIL GROUP

NOTE:#26 REGULATOR LEAD NOT REQUIRED

FOR VR-3 OR VR-4 REGULATOR IF

REQUIRED CONNECT PER DOTTED

LOCATION ON DIAGRAM

NOTE:TAPPED CONNECTIONS 20,22 AND

24 TO BE CONNECTED

15 TURNS FROM NEUTRAL FOR 582 FRAMES

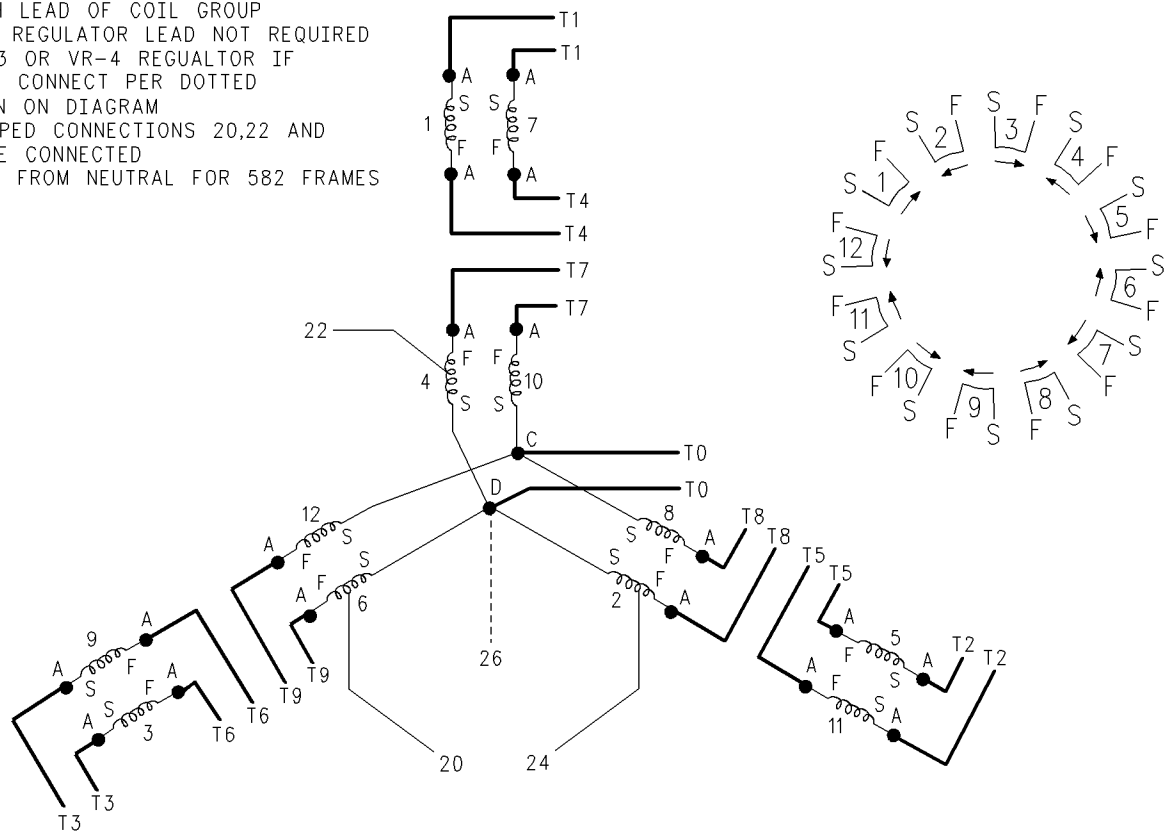


Illustration 25

g00720198

Connection Diagram 14

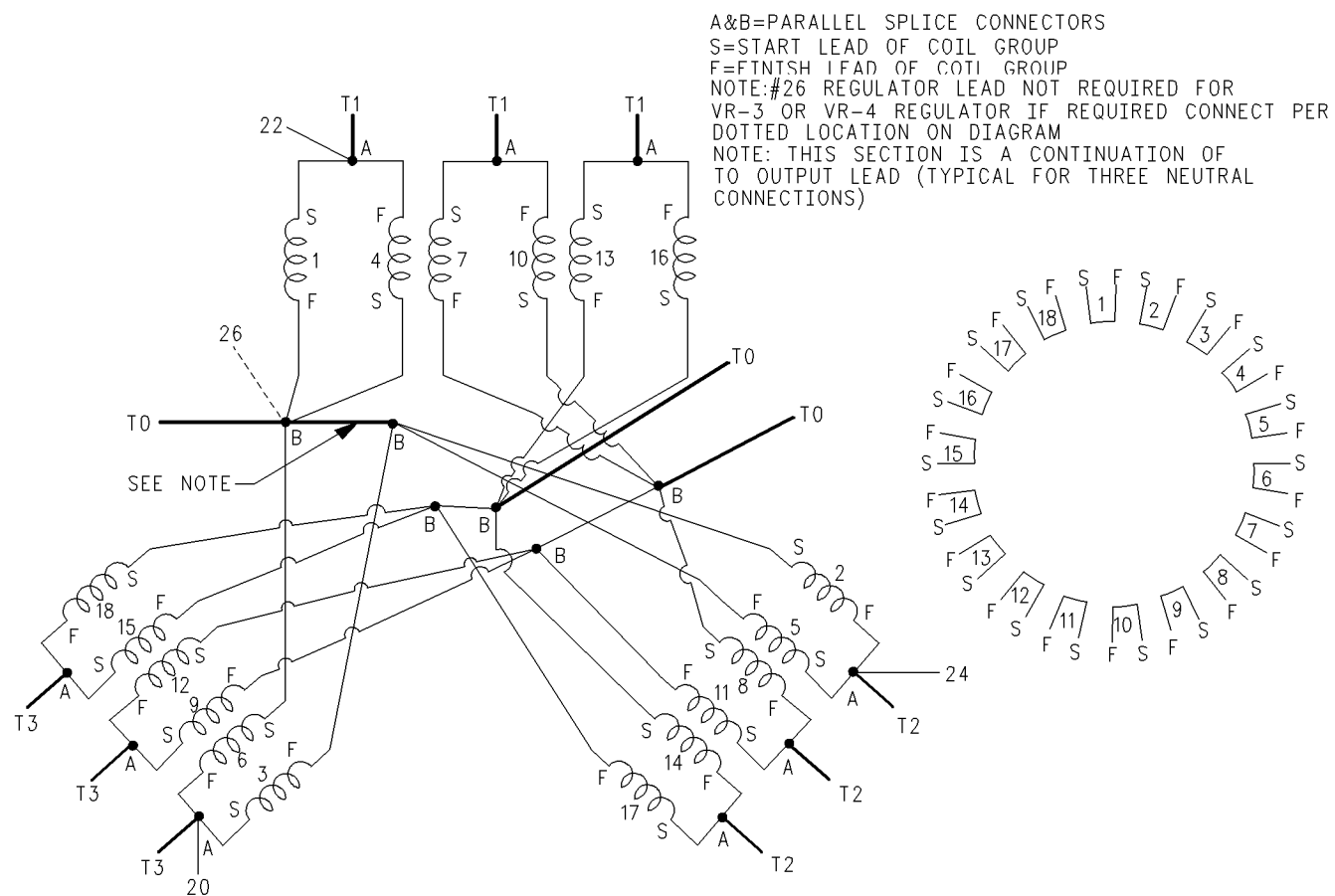


Illustration 26

g00720200

Connection Diagram 15

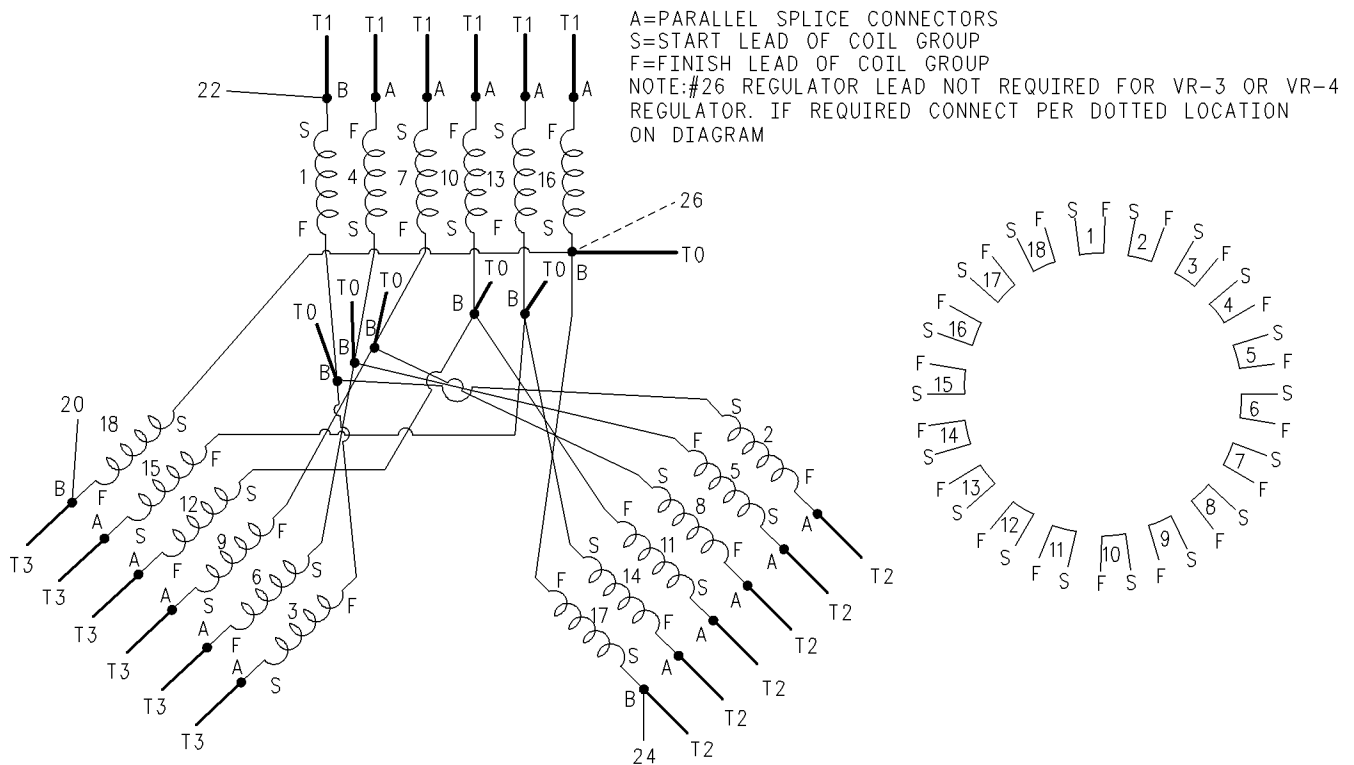


Illustration 27

g00720201

Connection Diagram 16

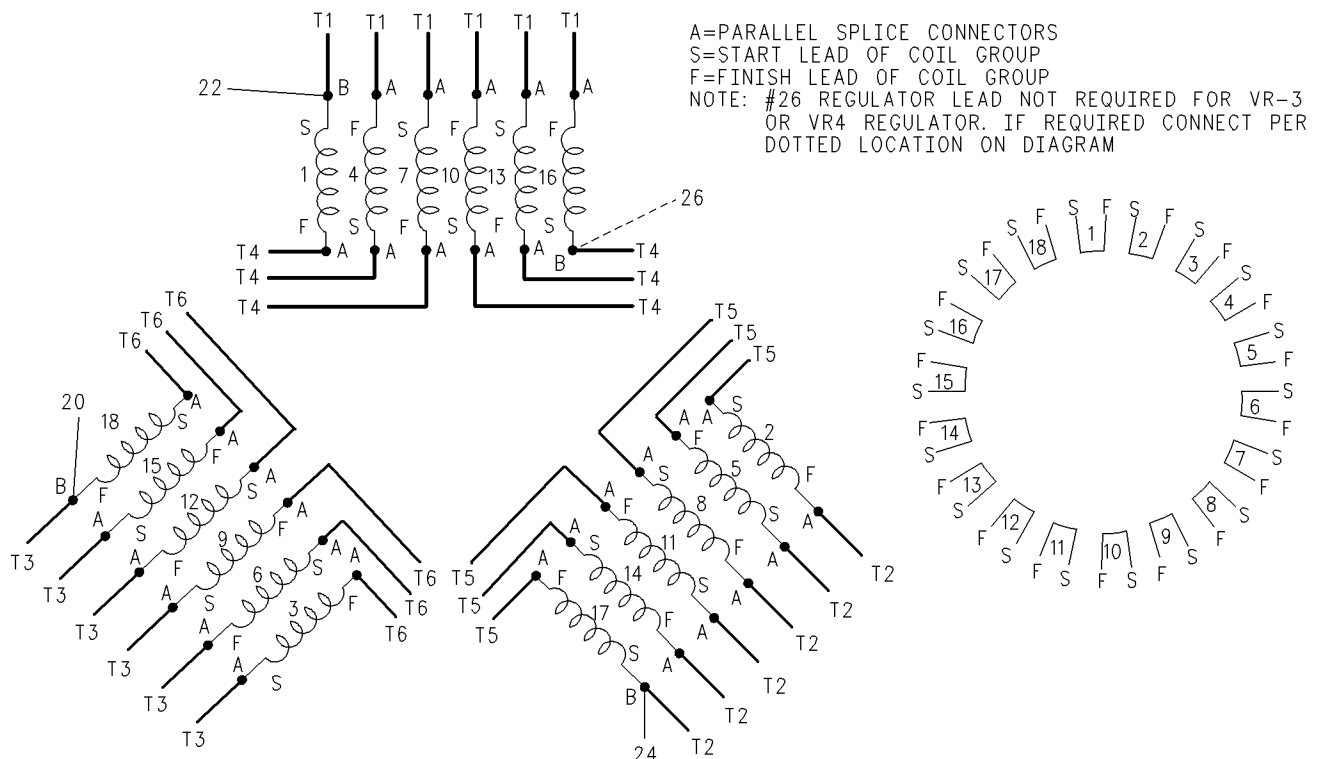


Illustration 28

g00720203

Connection Diagram 17

A & B= PARALLEL SPLICE CONNECTORS
S= START LEAD OF COIL GROOUP
F= FINISH LEAD OF COIL GROUP

NOTE: #26 REGULATOR LEAD NOT REQUIRED FOR VR-3
OR VR-4 REGULATOR. IF RQUIRED CONNECT PER
DOTTED LOCATION ON THE DIAGRAM

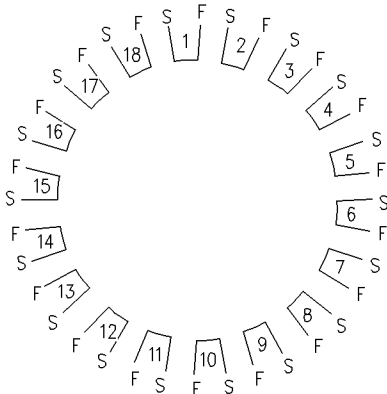
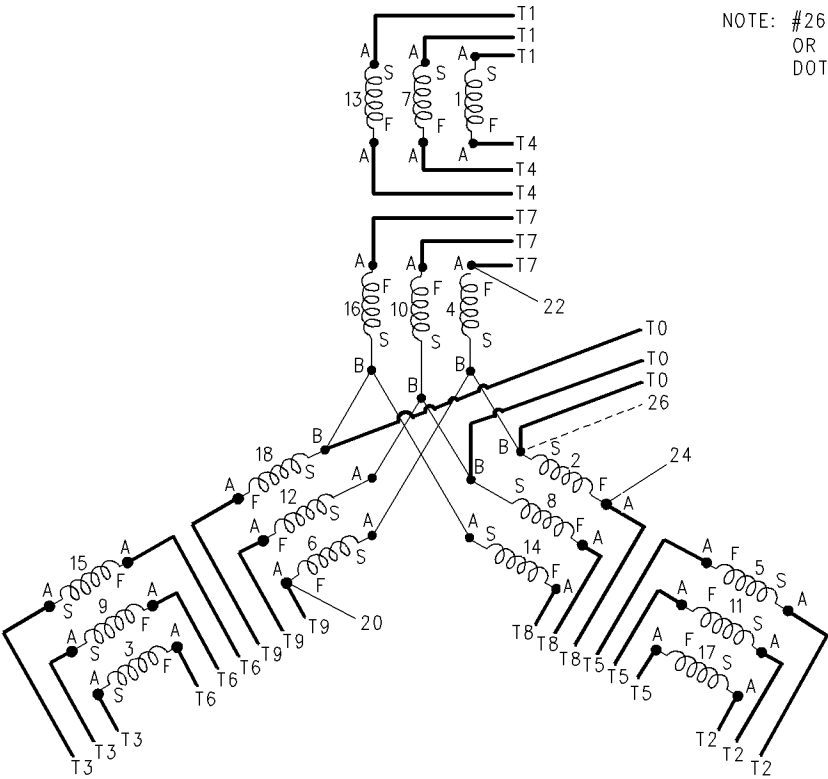


Illustration 29

Connection Diagram 18

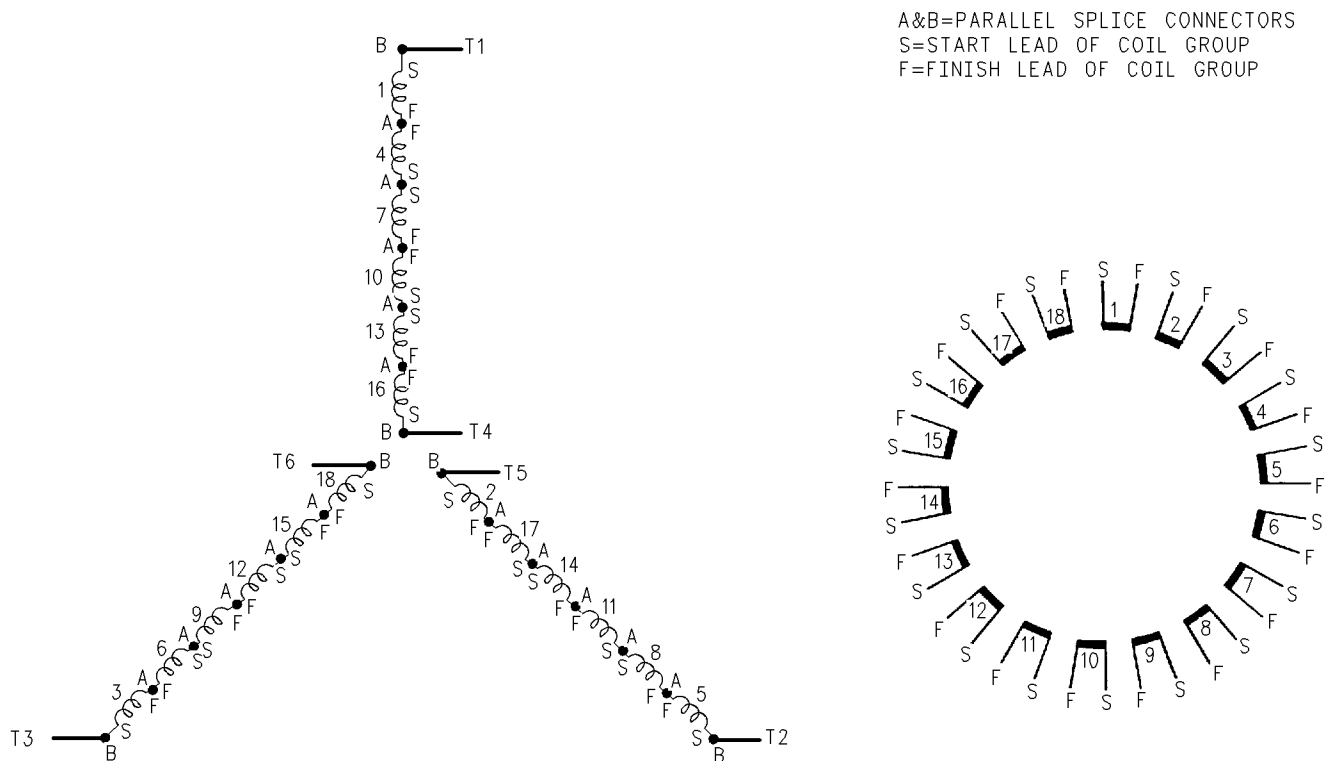


Illustration 30

g00720206

Connection Diagram 19

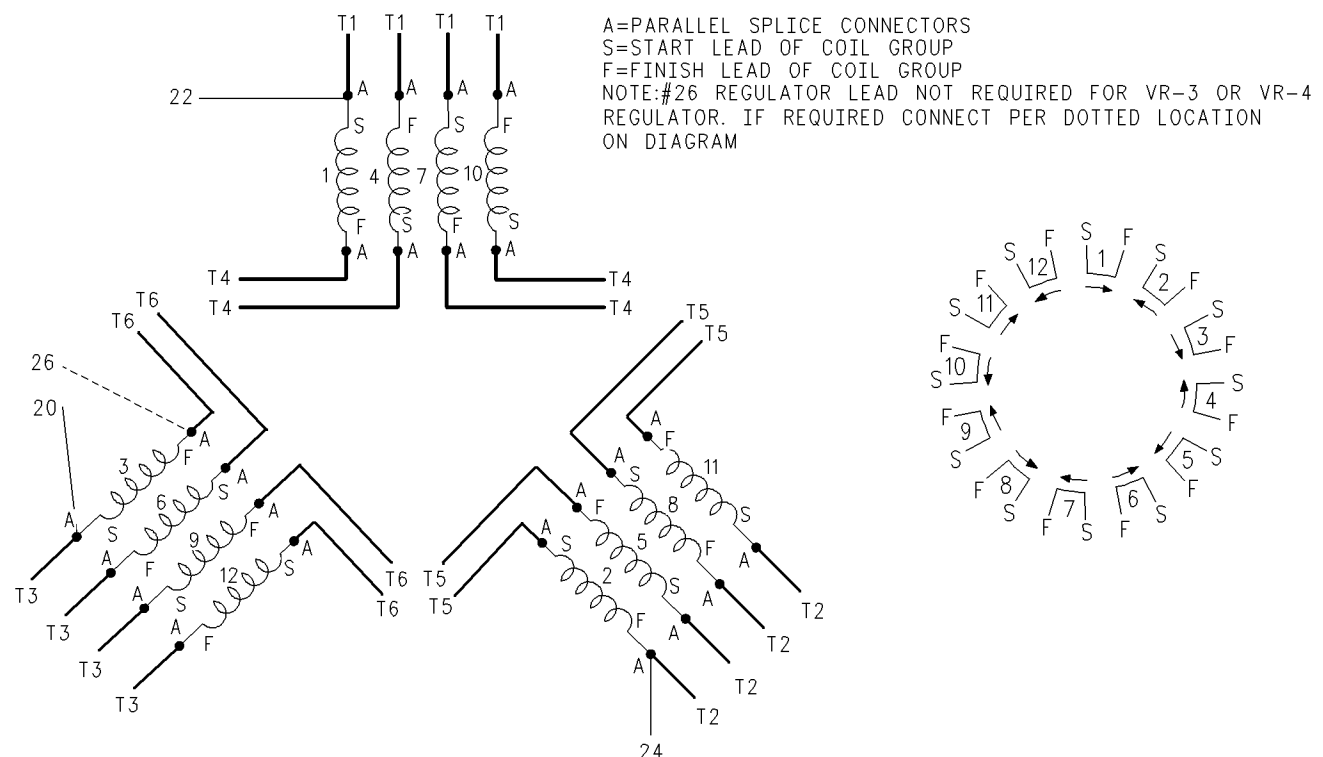
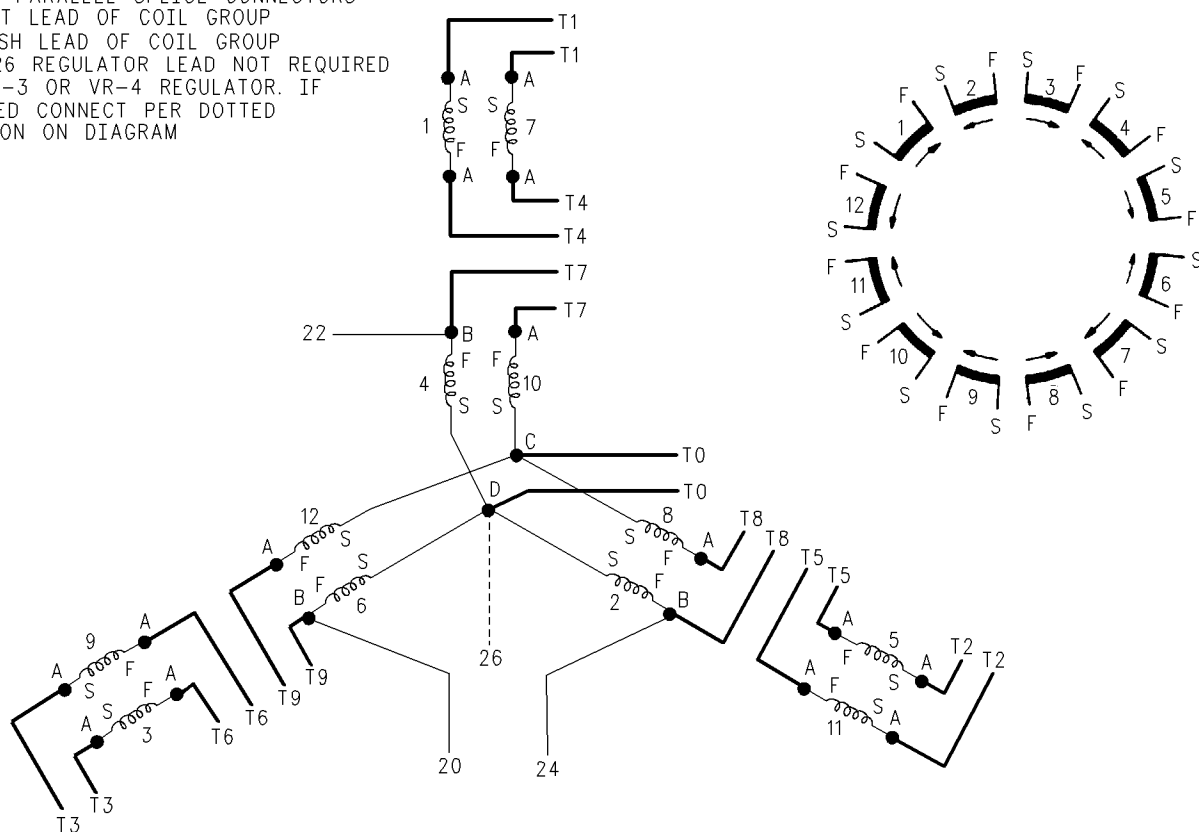


Illustration 31

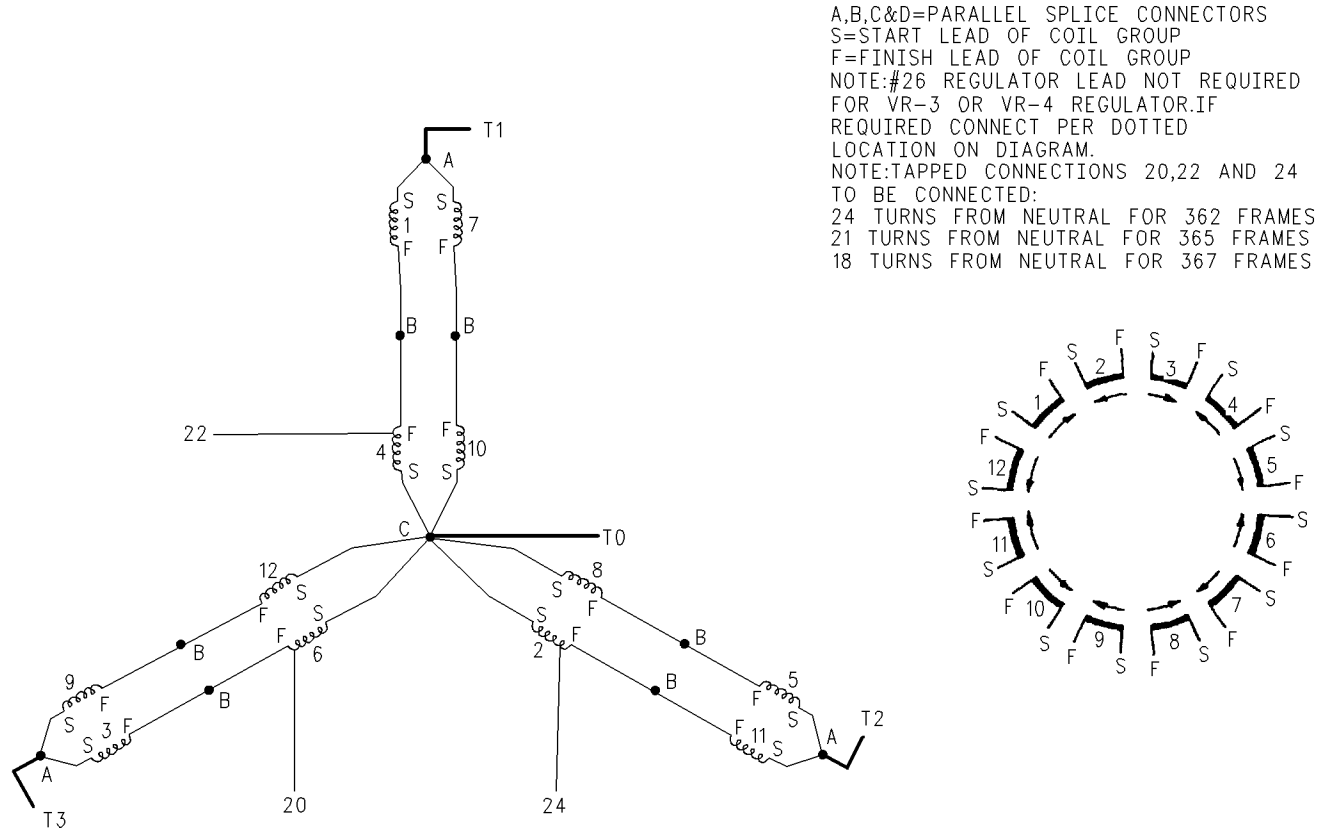
g00720916

Connection Diagram 20

A,B,C&D=PARALLEL SPLICE CONNECTORS
S=START LEAD OF COIL GROUP
F=FINISH LEAD OF COIL GROUP
NOTE:#26 REGULATOR LEAD NOT REQUIRED
FOR VR-3 OR VR-4 REGULATOR. IF
REQUIRED CONNECT PER DOTTED
LOCATION ON DIAGRAM



Connection Diagram 21



Connection Diagram 22

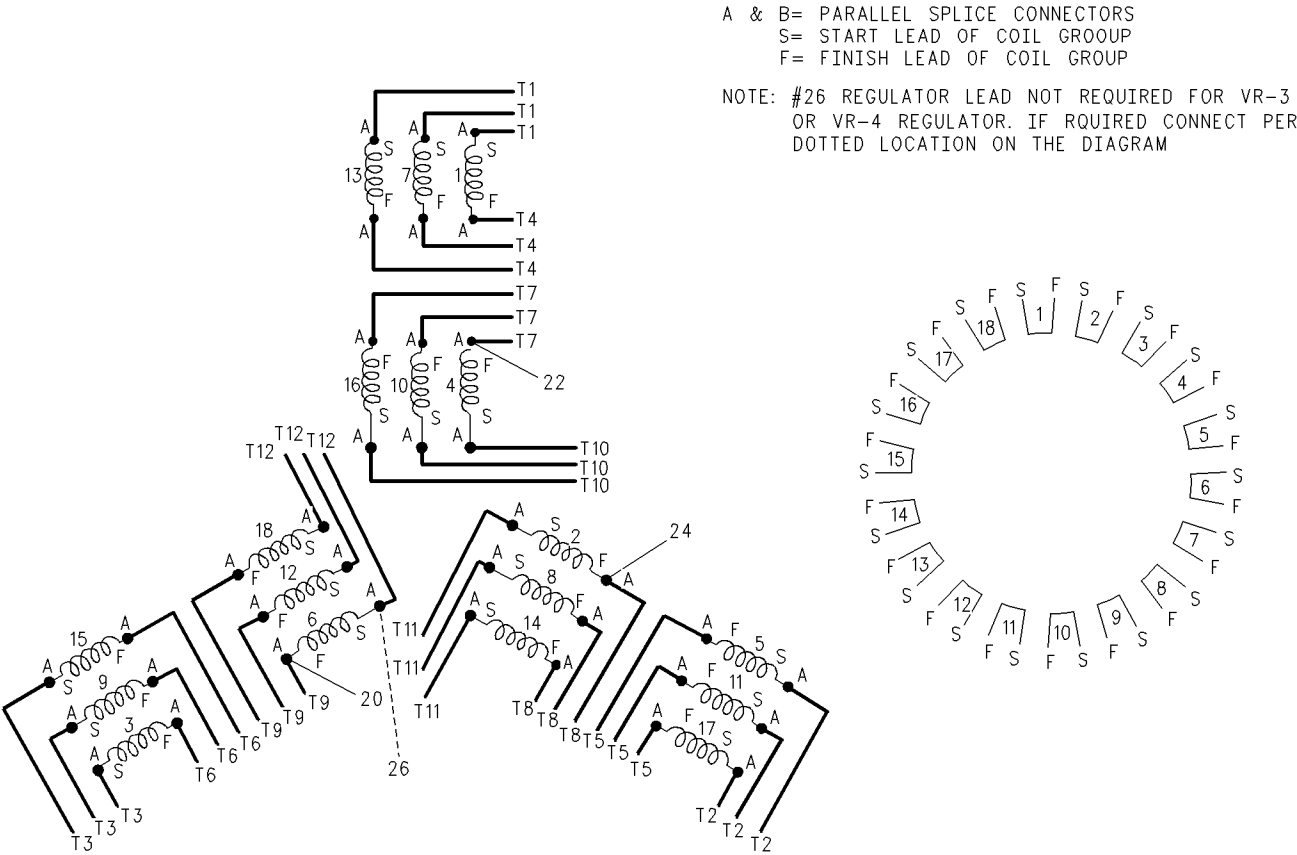


Illustration 34

Connection Diagram 23

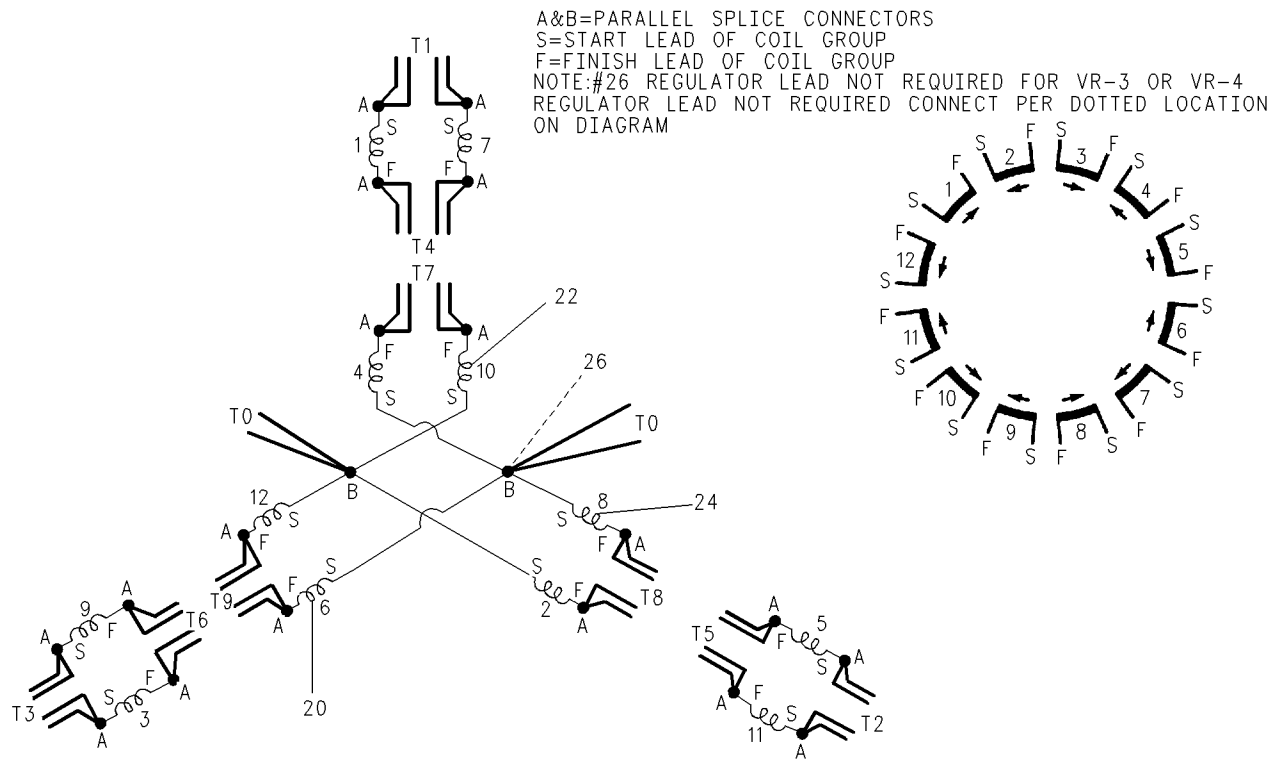


Illustration 35

g00720213

Connection Diagram 24

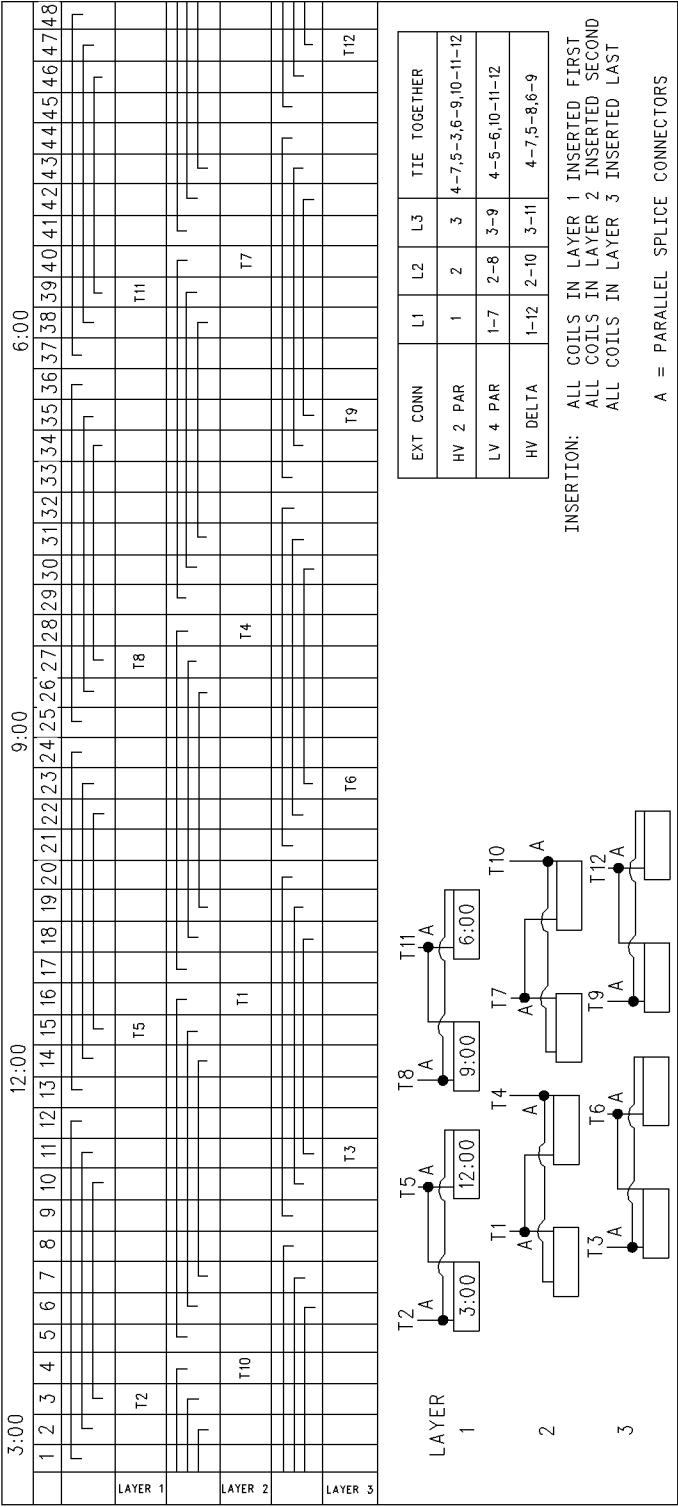


Illustration 36

Connection Diagram 25

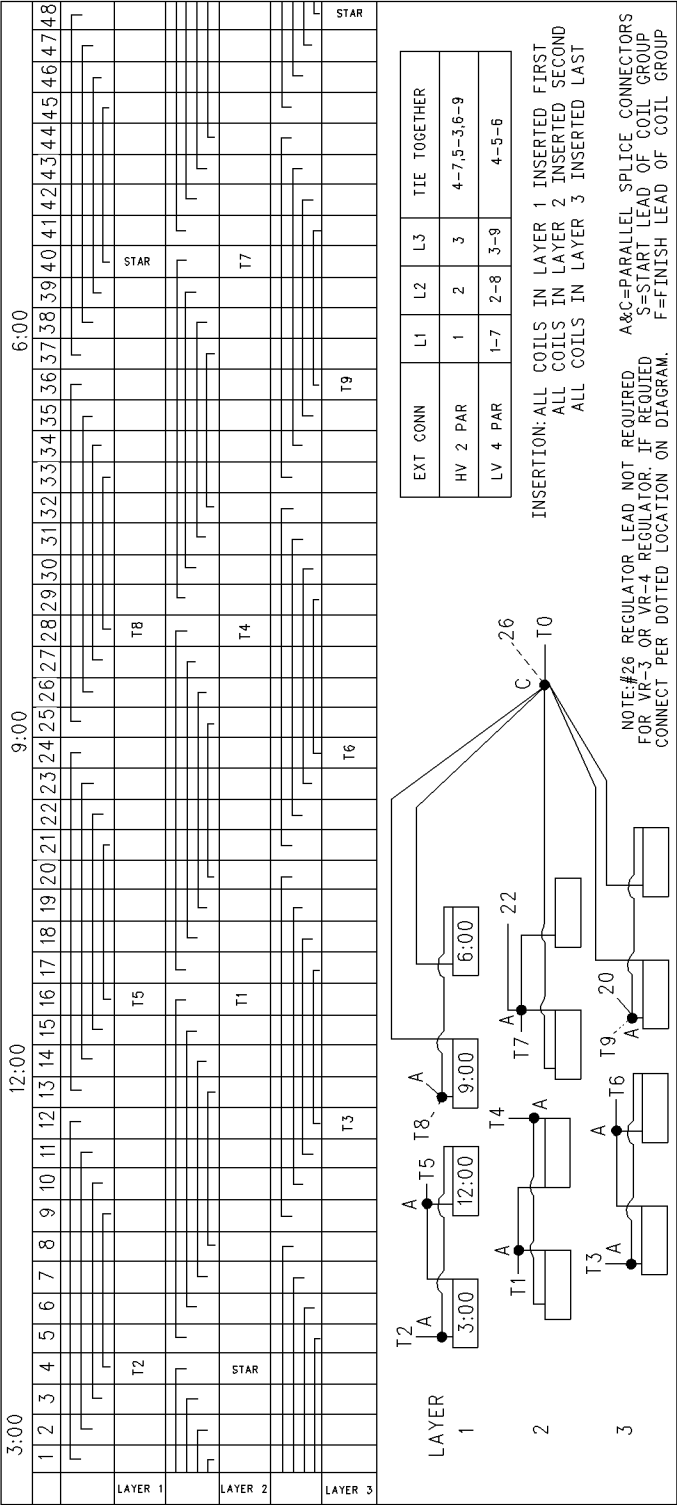


Illustration 37

g00720215

Connection Diagram 26

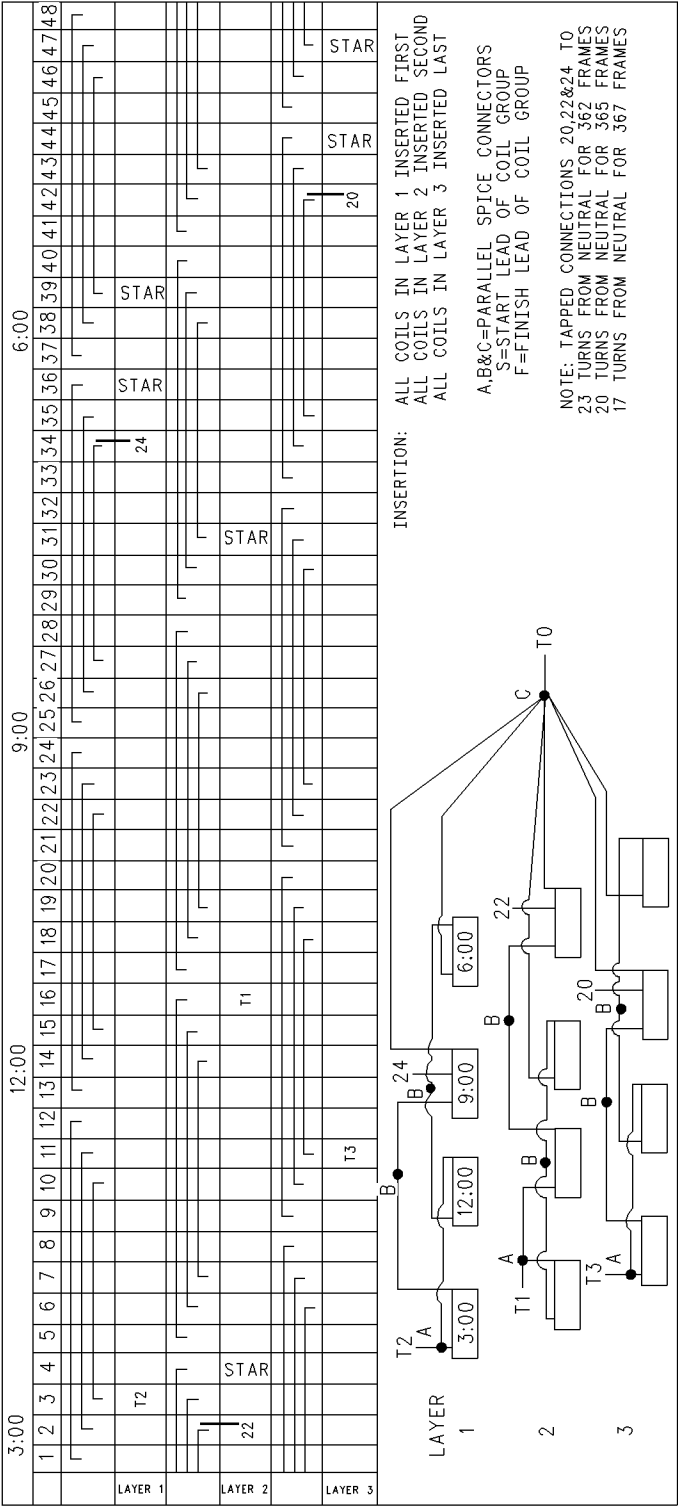


Illustration 38

Connection Diagram 27

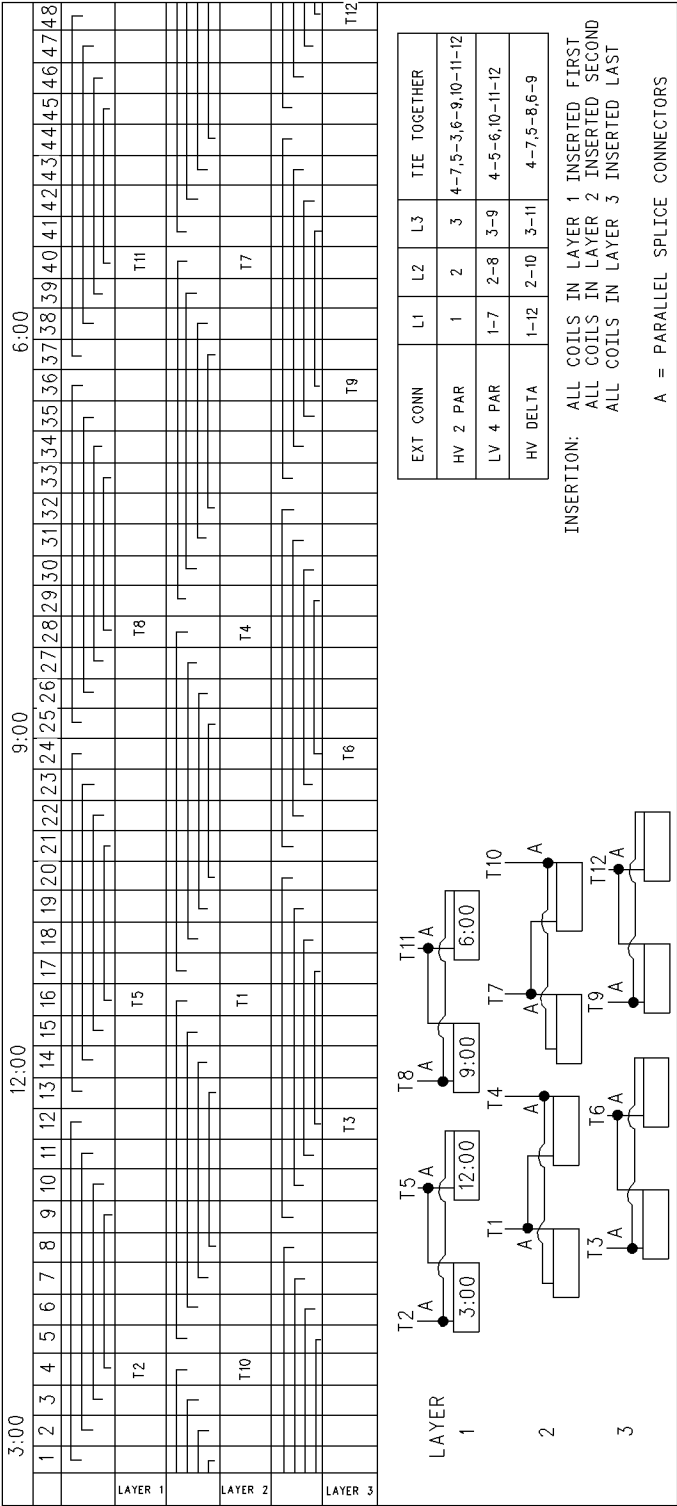


Illustration 39

g00720217

Connection Diagram 28

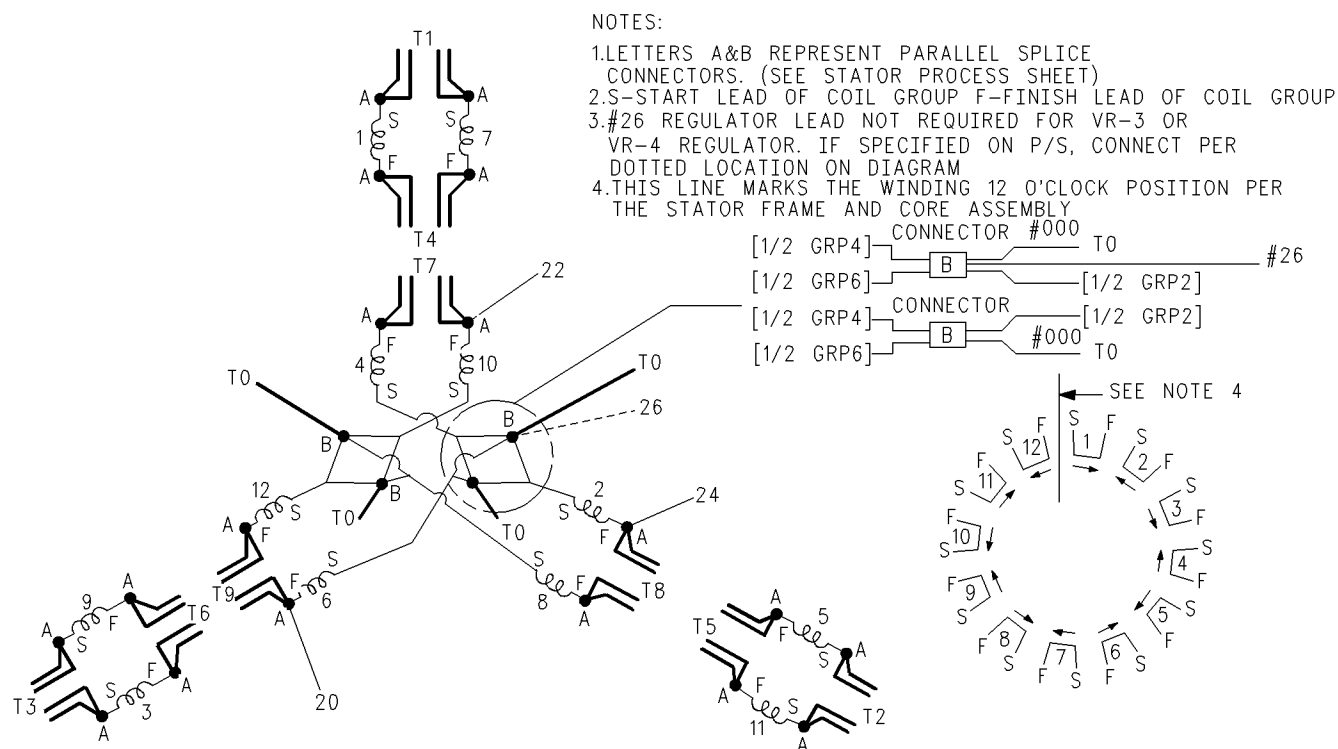


Illustration 40

g00720218

Connection Diagram 29

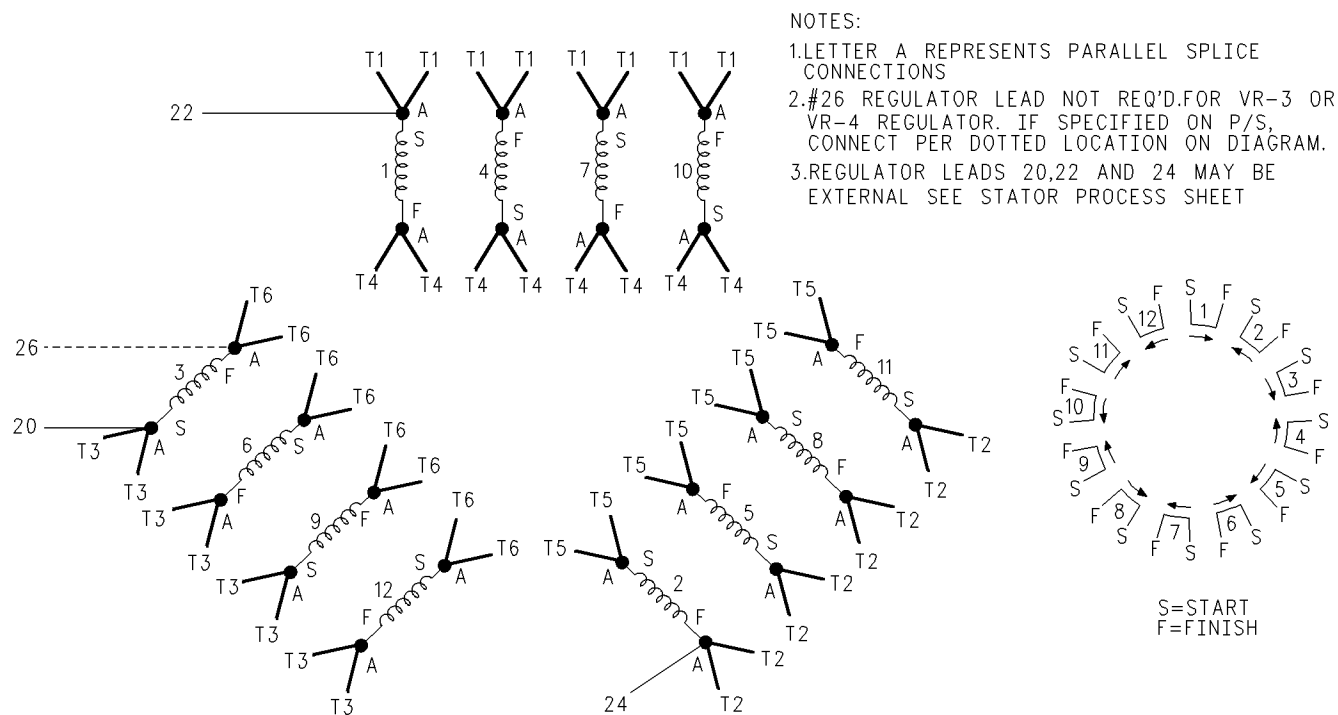


Illustration 41

g00720219

Connection Diagram 30

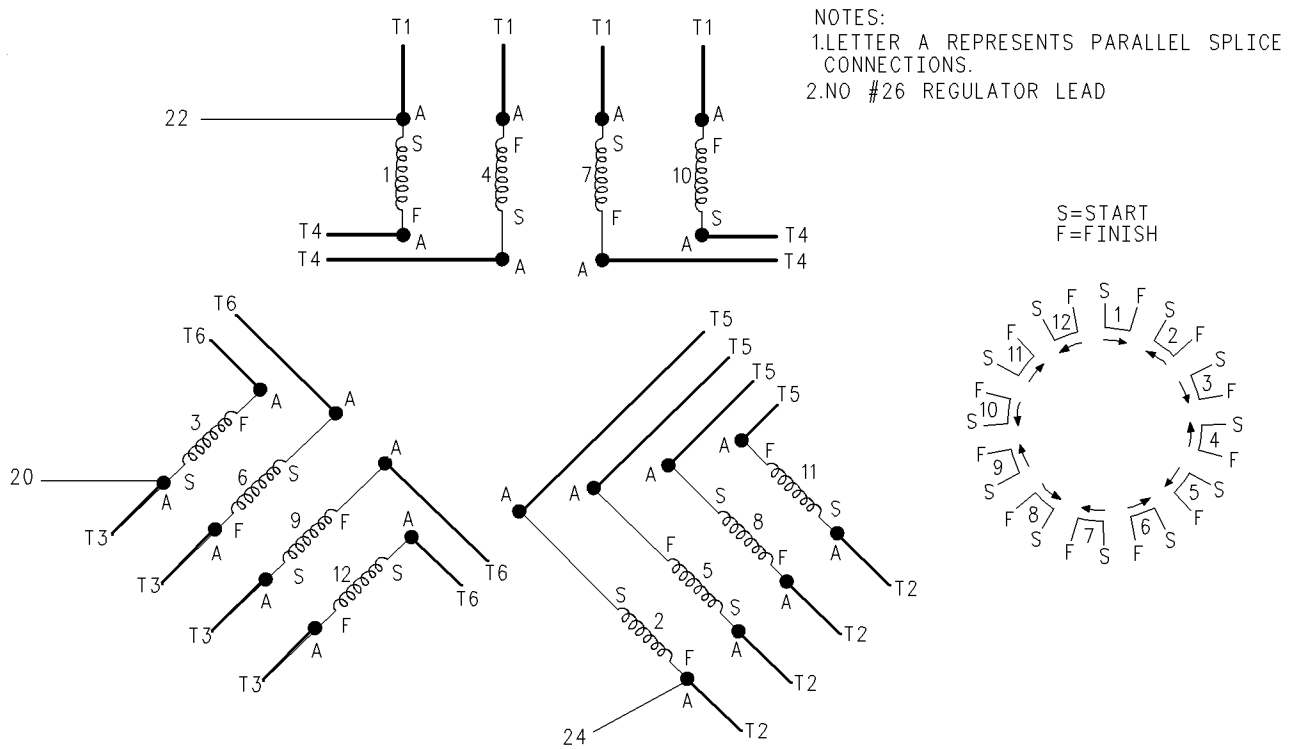


Illustration 42

g00720220

Connection Diagram 31

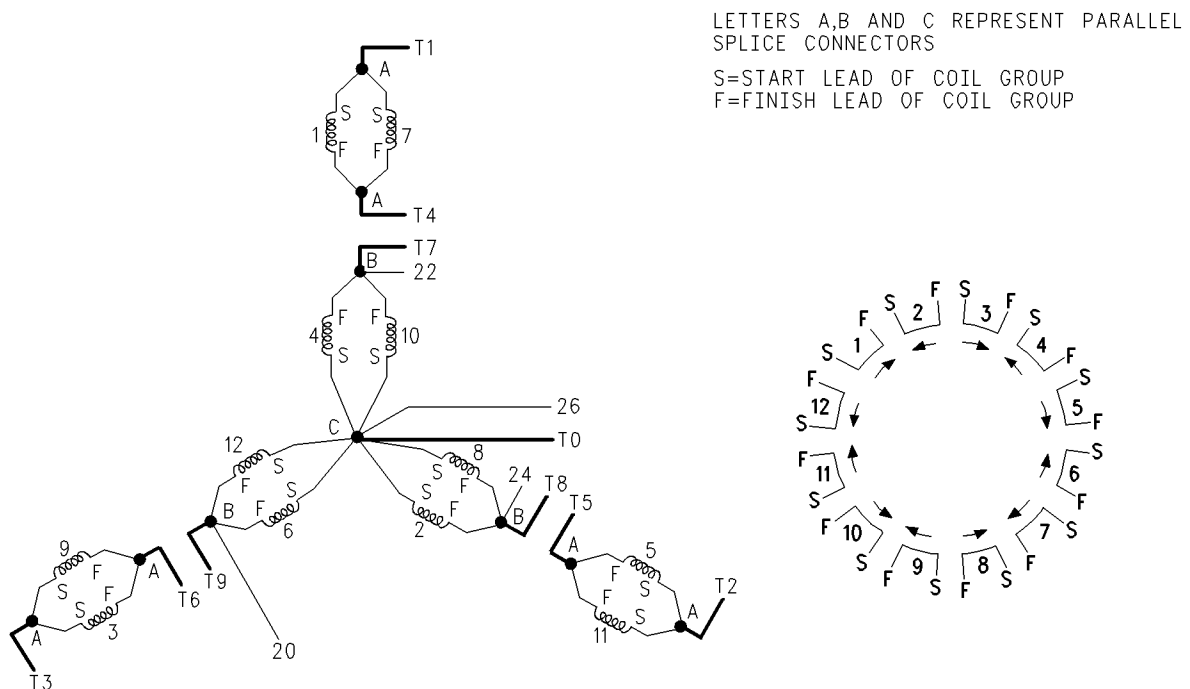


Illustration 43

g00720222

Connection Diagram 32

LETTERS A AND C REPRESENT
PARALLEL SPLICE CONNECTORS
S=START LEAD OF COIL GROUP
F=FINISH LEAD OF COIL GROUP
TAPPED CONNECTIONS 20,22 AND 24
BETWEEN 4TH AND 5TH COIL, WITHIN
THE COILS GROUP
28 TURNS FROM NEUTRAL ON 444
FRAMES
20 TURNS FROM NEUTRAL ON 445
FRAMES

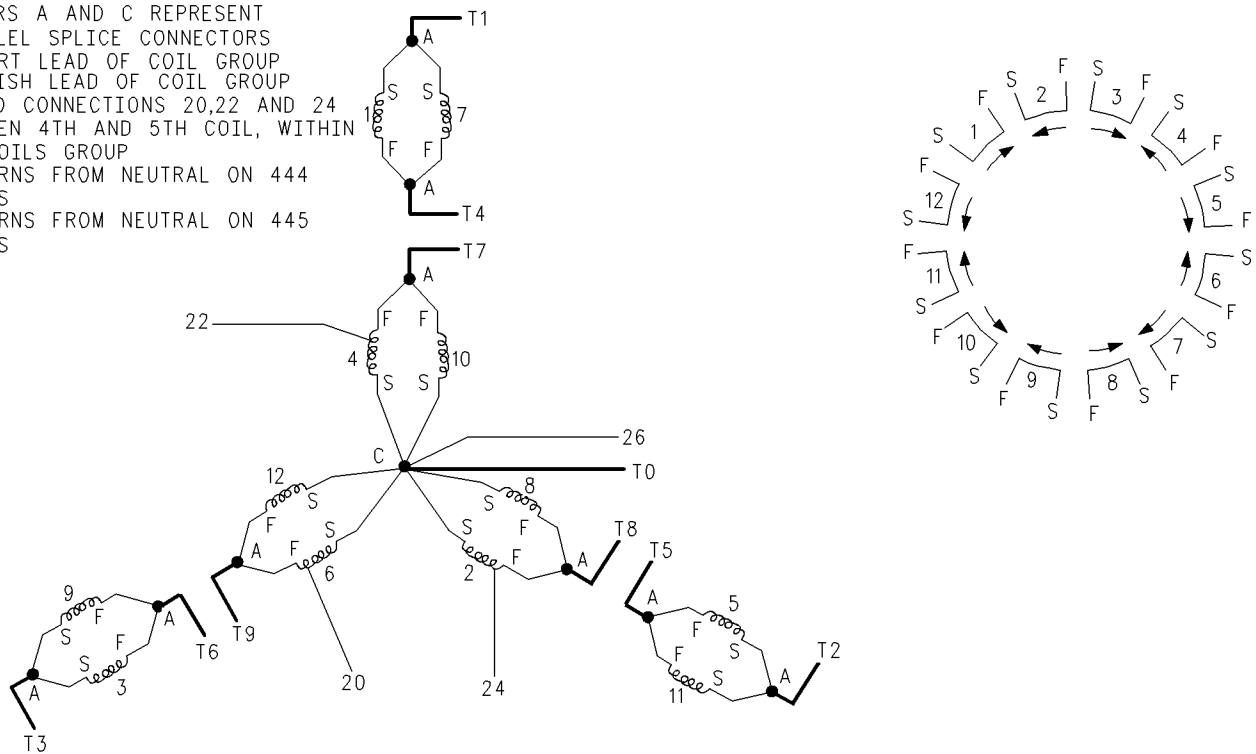


Illustration 44

g00720223

Connection Diagram 33

LETTERS A,C AND D REPRESENT
PARALLEL SPLICE CONNECTORS
S=START LEAD OF COIL GROUP
F=FINISH LEAD OF COIL GROUP
TAPPED CONNECTIONS 20, 22 AND 24
BETWEEN 4TH AND 5TH COIL, WITHIN
THE COILS GROUP
14 TURNS FROM NEUTRAL ON 447
FRAMES
10 TURNS FROM NEUTRAL ON 449
FRAMES

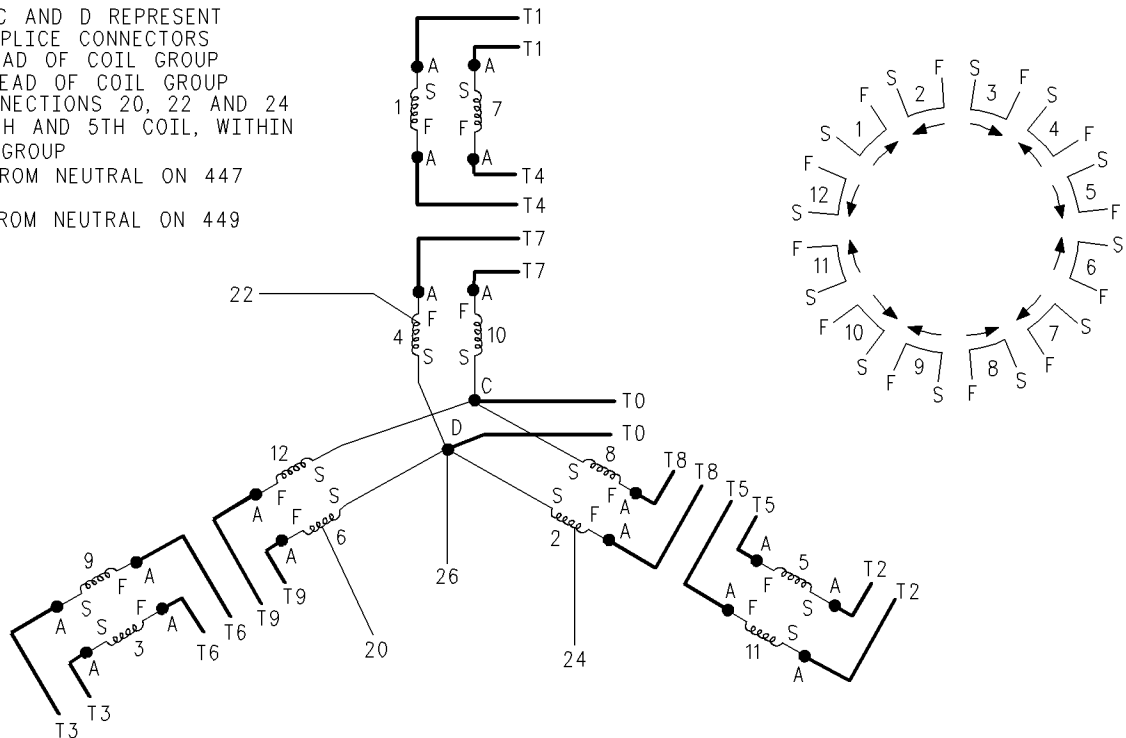


Illustration 45

g00720224

Connection Diagram 34

LETTERS A,B AND C REPRESENT
PARALLEL SPLICE CONNECTORS
S=START LEAD OF COIL GROUP
F=FINISH LEAD OF COIL GROUP

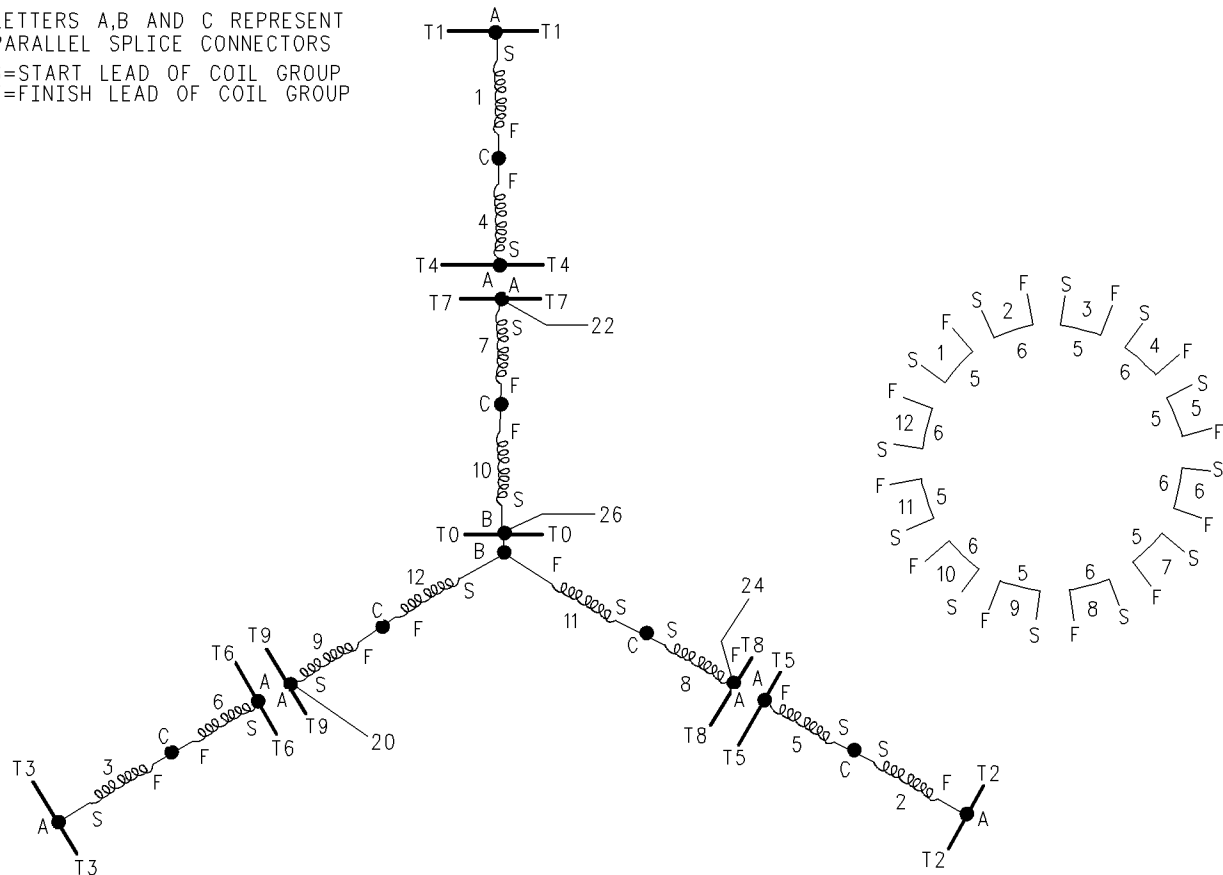


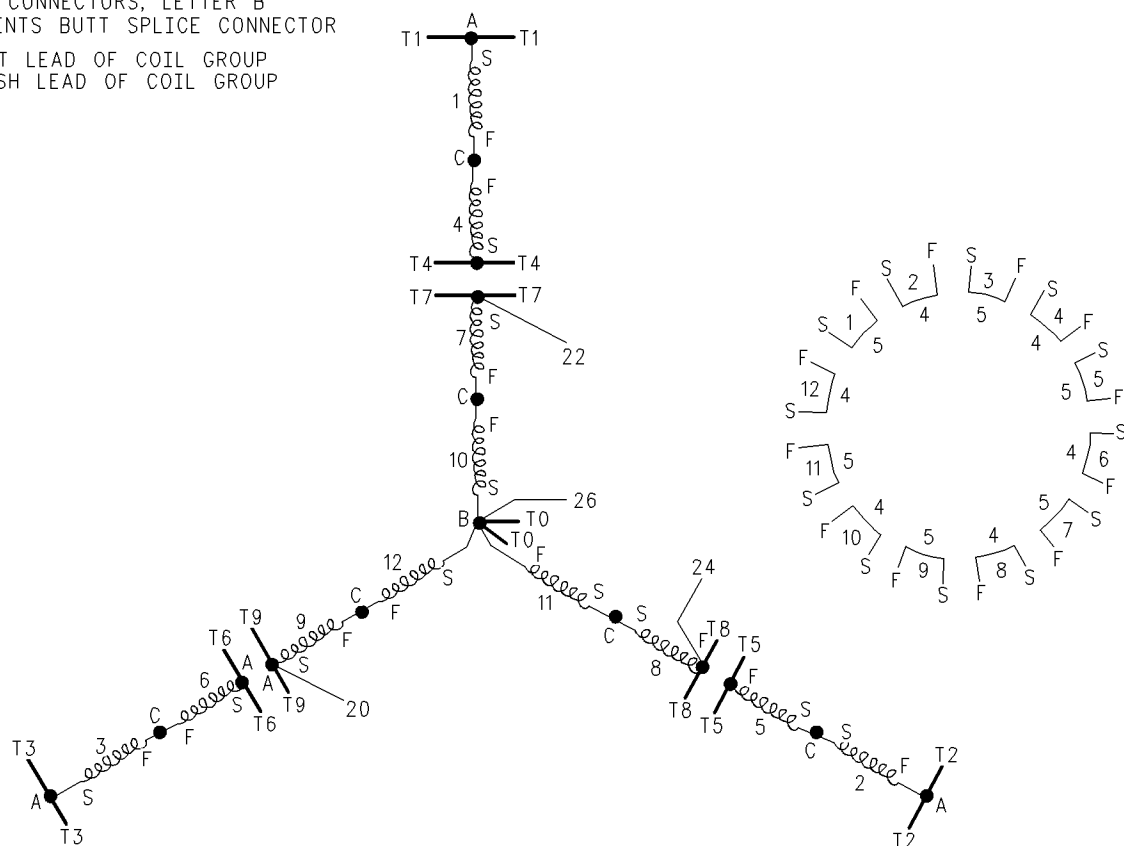
Illustration 46

g00720225

Connection Diagram 35

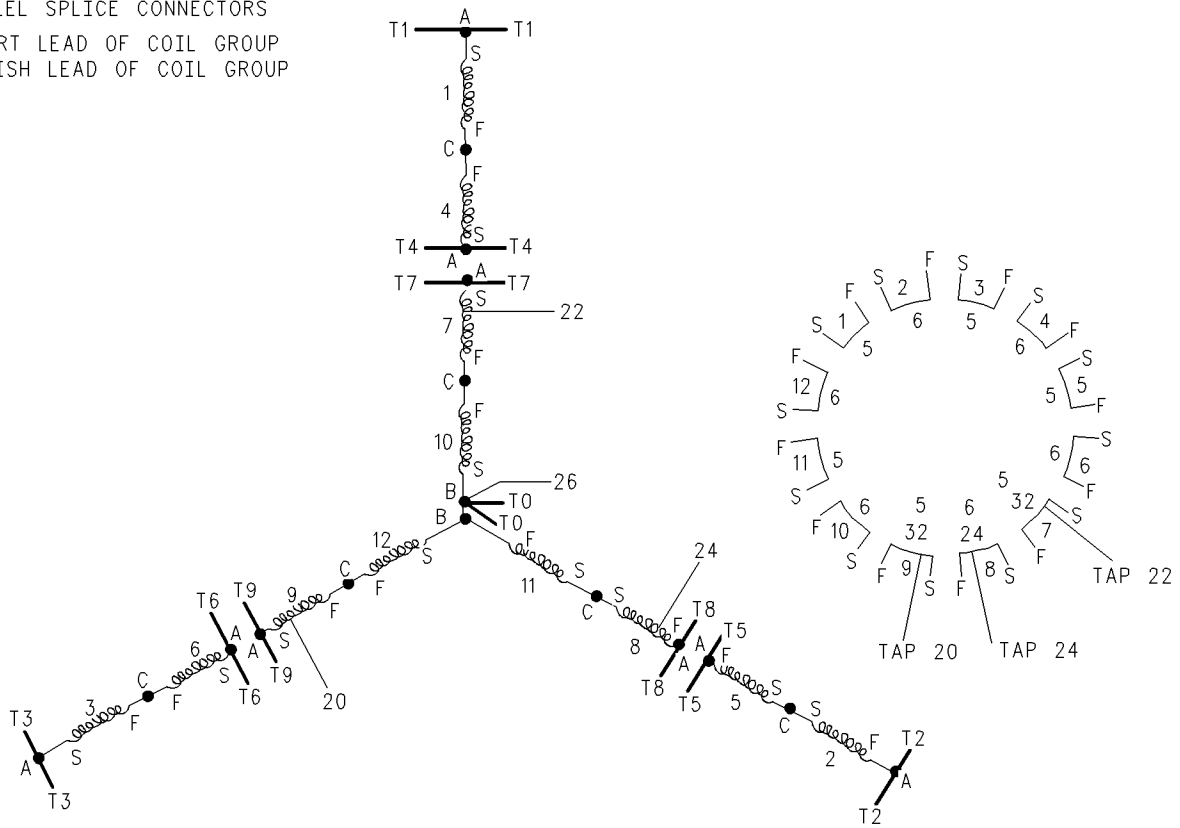
LETTERS A AND C REPRESENT PARALLEL
SPLICE CONNECTORS, LETTER B
REPRESENTS BUTT SPLICE CONNECTOR

S=START LEAD OF COIL GROUP
F=FINISH LEAD OF COIL GROUP



Connection Diagram 36

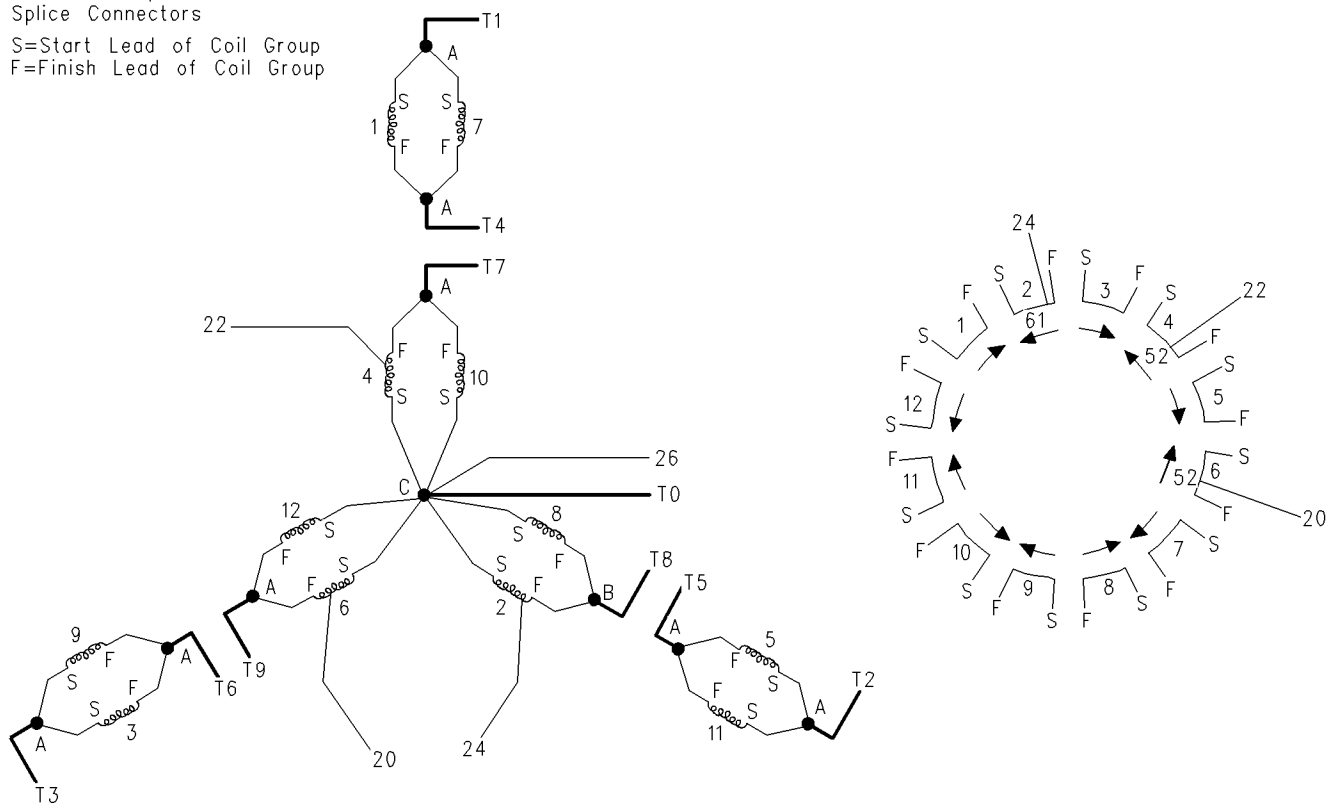
LETTERS A,B AND C REPRESENT
PARALLEL SPLICE CONNECTORS
S=START LEAD OF COIL GROUP
F=FINISH LEAD OF COIL GROUP



Connection Diagram 37

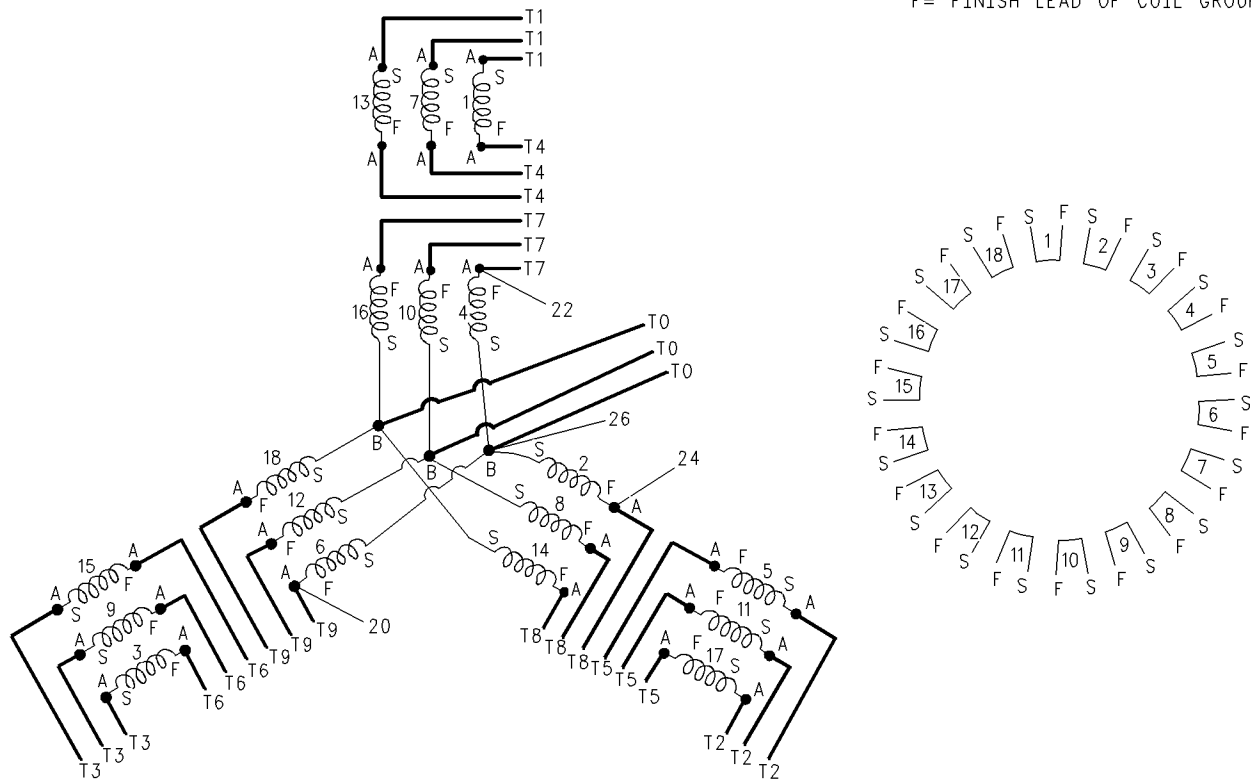
Letter A Represents Parallel
Splice Connectors

S=Start Lead of Coil Group
F=Finish Lead of Coil Group



Connection Diagram 38

A & B= PARALLEL SPLICE CONNECTORS
S= START LEAD OF COIL GROOUP
F= FINISH LEAD OF COIL GROUP



Connection Diagram 39

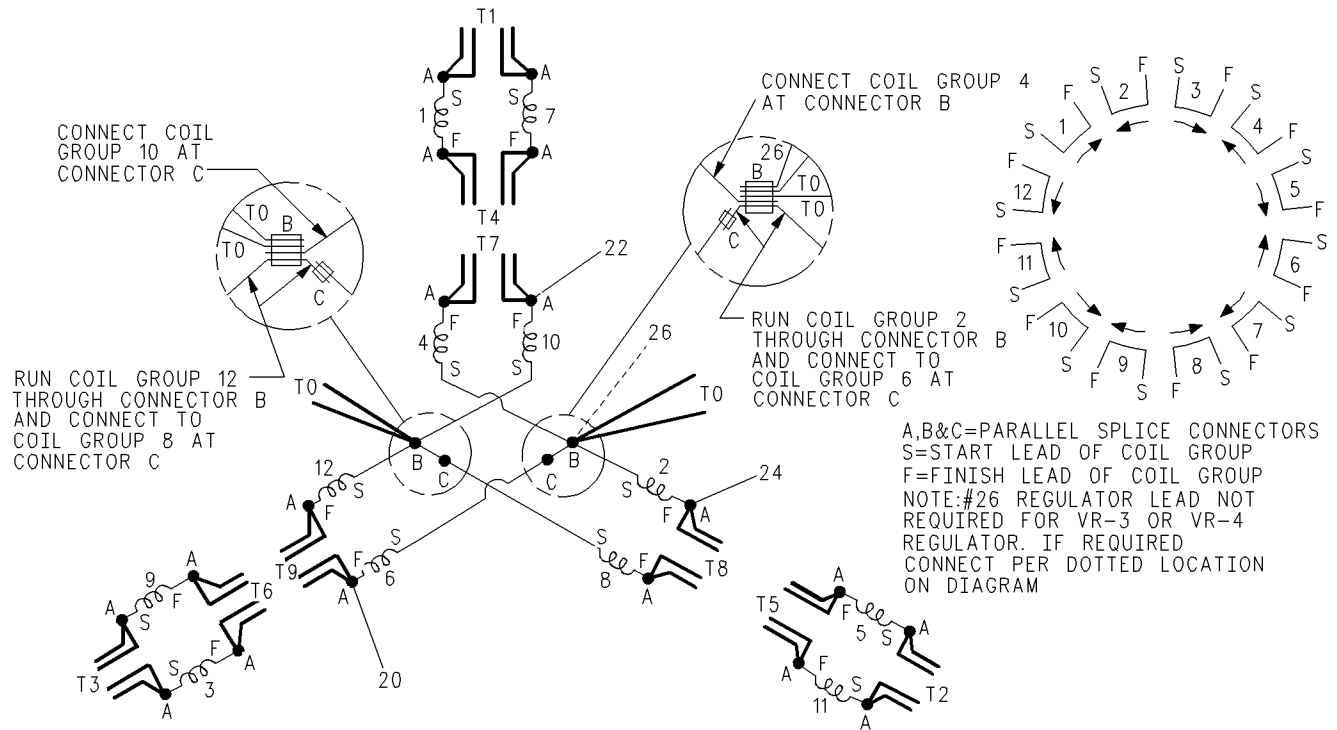


Illustration 51

g00720231

Connection Diagram 40

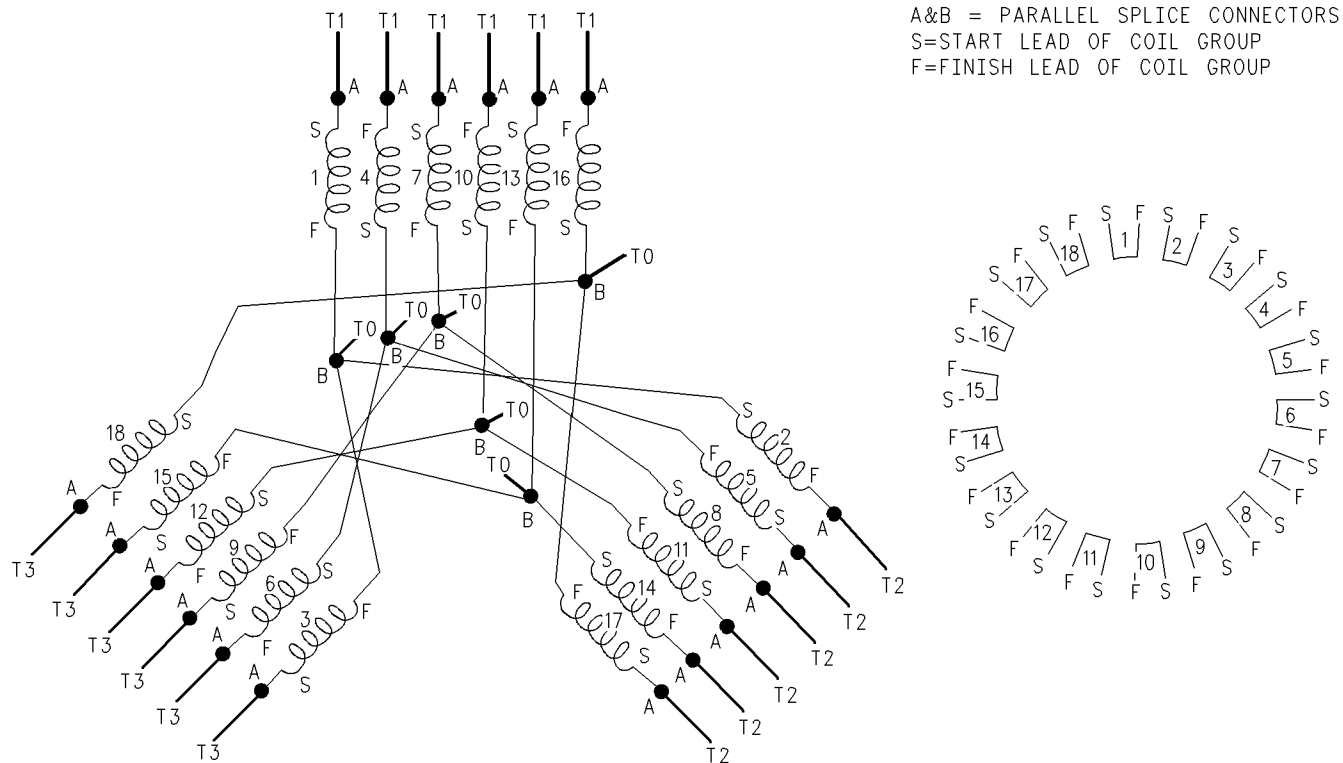


Illustration 52

g00720233

Connection Diagram 41

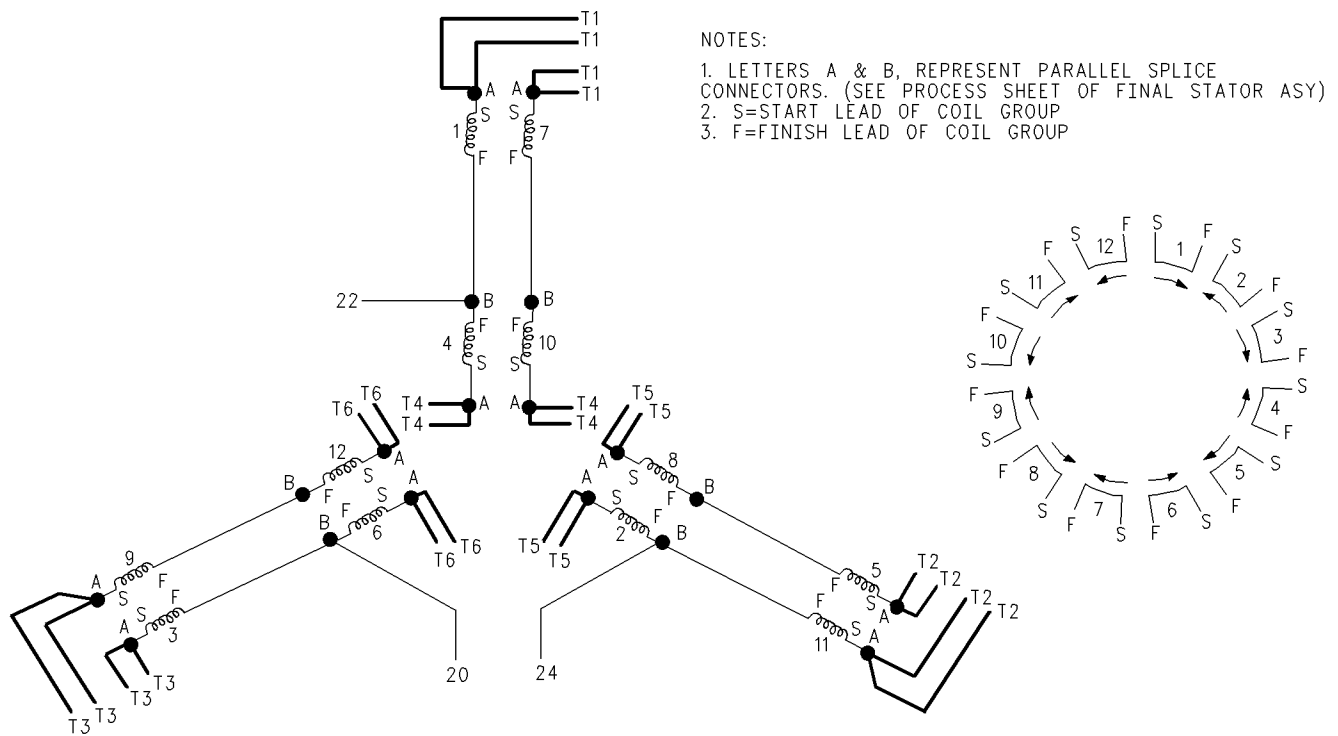


Illustration 53

g00720234

Connection Diagram 42

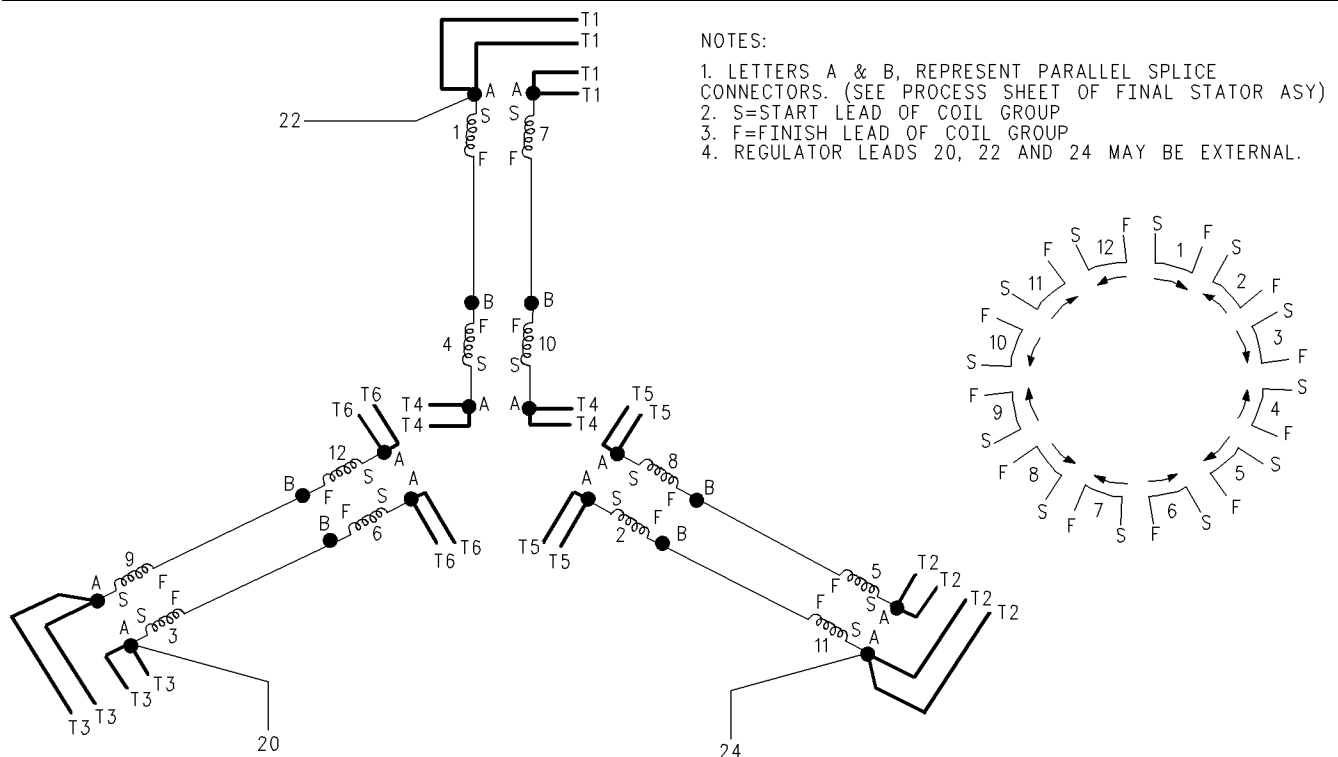


Illustration 54

g00720235

Connection Diagram 43

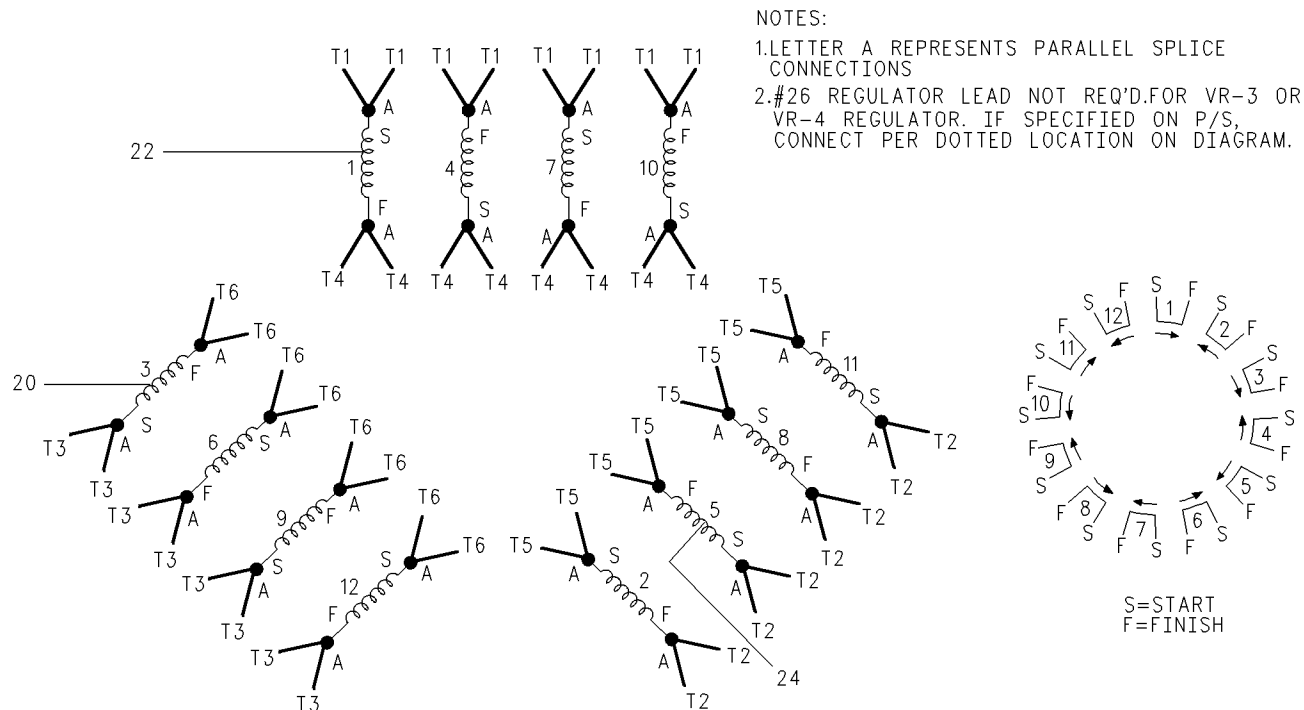


Illustration 55

g00722713

Connection Diagram 44

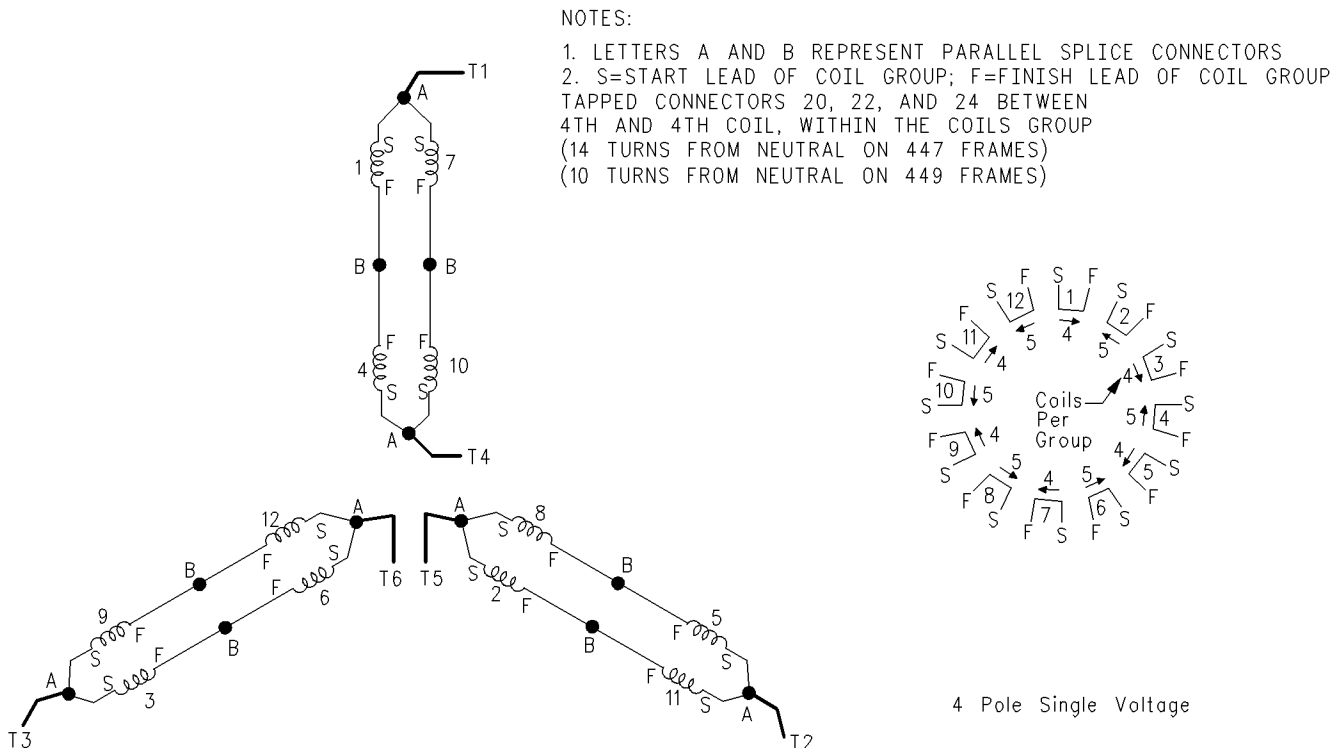
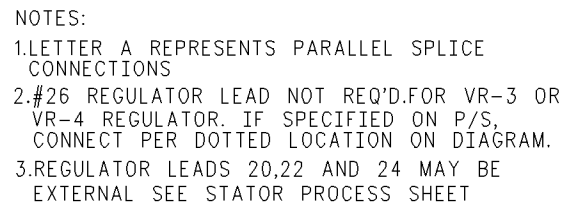


Illustration 56

g00722754

Connection Diagram 45



Connection Diagram 46

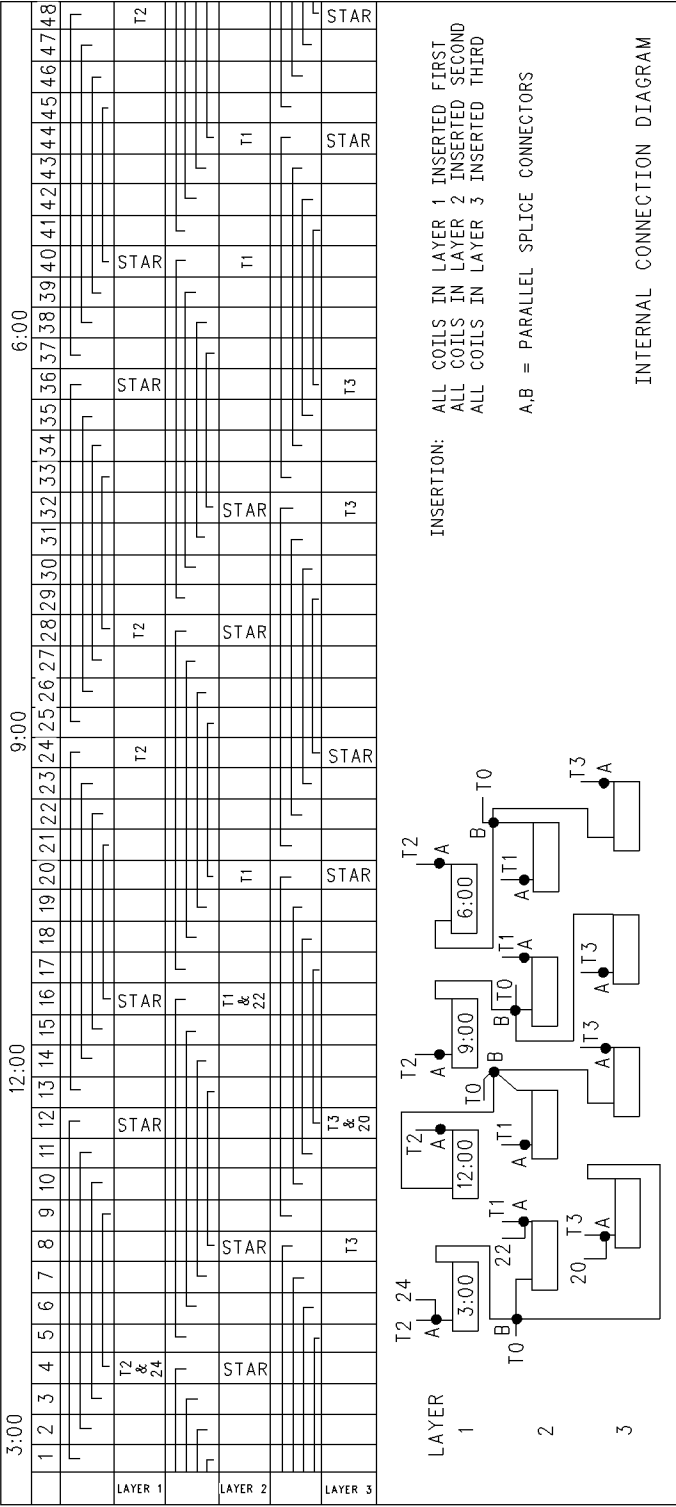


Illustration 58

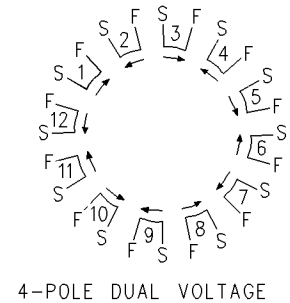
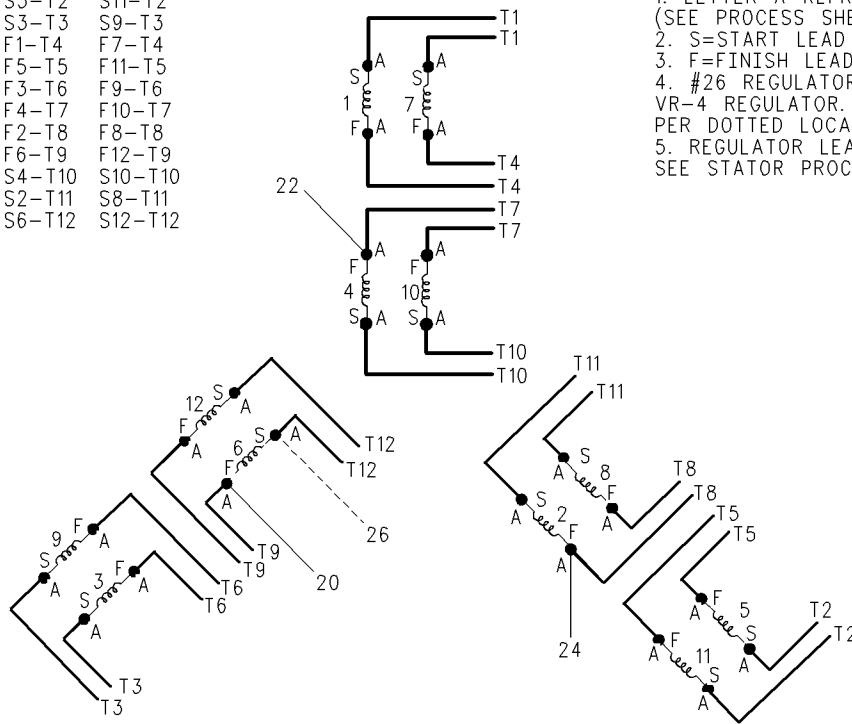
Connection Diagram 47

LEADS:

S1-T1	S7-T1
S5-T2	S11-T2
S3-T3	S9-T3
F1-T4	F7-T4
F5-T5	F11-T5
F3-T6	F9-T6
F4-T7	F10-T7
F2-T8	F8-T8
F6-T9	F12-T9
S4-T10	S10-T10
S2-T11	S8-T11
S6-T12	S12-T12

NOTES:

1. LETTER A REPRESENTS PARALLEL SPLICE CONNECTORS (SEE PROCESS SHEET)
2. S=START LEAD OF COIL GROUP
3. F=FINISH LEAD OF COIL GROUP
4. #26 REGULATOR LEAD NOT REQ'D. FOR VR-3 OR VR-4 REGULATOR. IF SPECIFIED ON P/S, CONNECT PER DOTTED LOCATION ON DIAGRAM.
5. REGULATOR LEADS 20,22 AND 24 MAY BE EXTERNAL SEE STATOR PROCESS SHEET



Connection Diagram 48

LEADS:

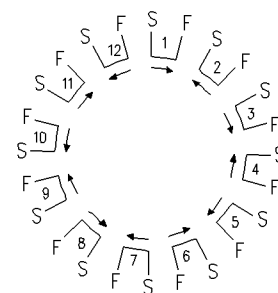
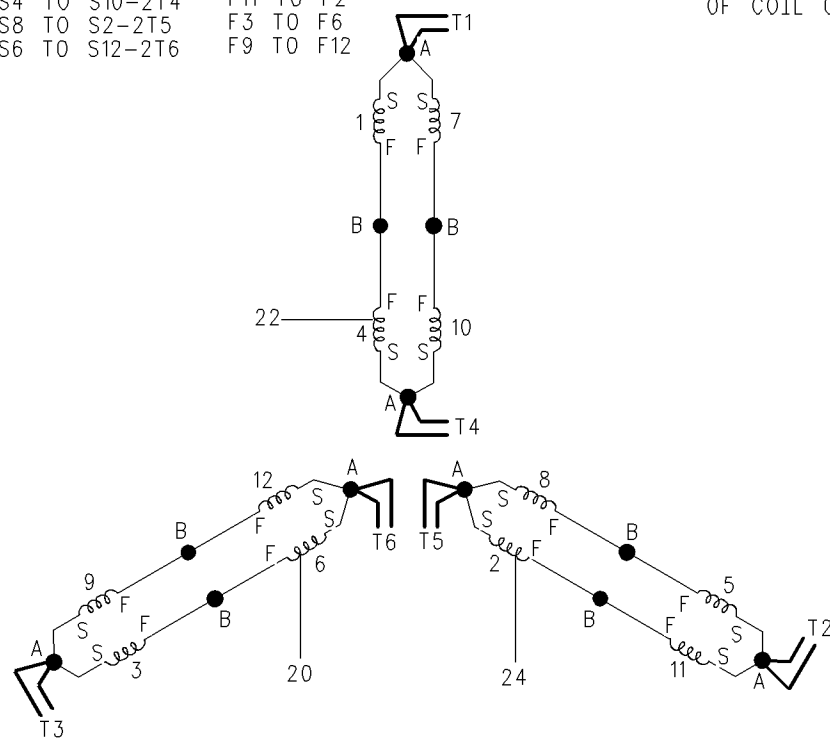
S1 TO S7-2T1
S5 TO S11-2T2
S3 TO S9-2T3
S4 TO S10-2T4
S8 TO S2-2T5
S6 TO S12-2T6

SERIES:

F1 TO F4
F7 TO F10
F5 TO F8
F11 TO F2
F3 TO F6
F9 TO F12

NOTES:

1. LETTERS A & B REPRESENT PARALLEL SPLICE CONNECTORS. (SEE STATOR PROCESS SHEET)
2. S=START LEAD OF COIL GROUP F=FINISH LEAD OF COIL GROUP



4-POLE SINGLE VOLTAGE WITH TAP

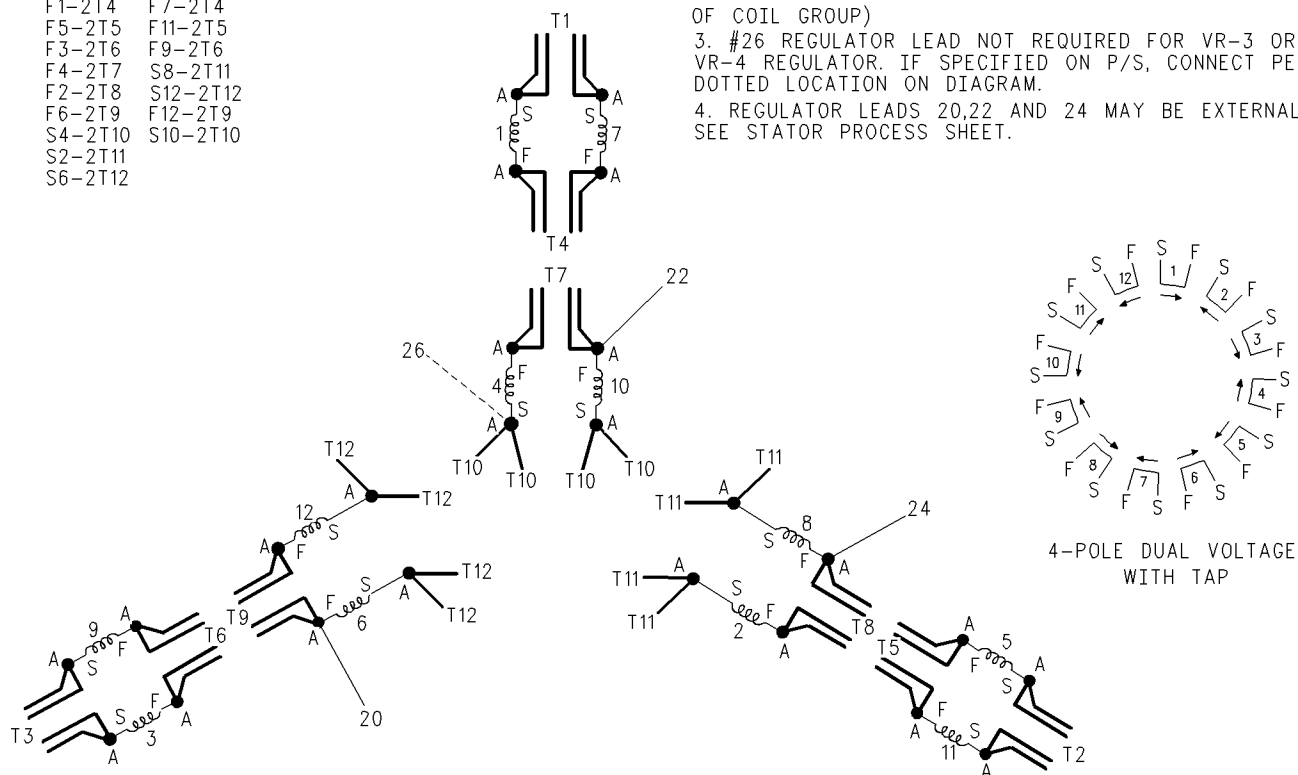
Connection Diagram 49

LEADS:

S1-2T1	S7-2T1
S5-2T2	S11-2T2
S3-2T3	S9-2T3
F1-2T4	F7-2T4
F5-2T5	F11-2T5
F3-2T6	F9-2T6
F4-2T7	S8-2T11
F2-2T8	S12-2T12
F6-2T9	F12-2T9
S4-2T10	S10-2T10
S2-2T11	
S6-2T12	

NOTES:

1. LETTER A REPRESENTS PARALLEL SPLICE CONNECTORS. (SEE STATOR PROCESS SHEET)
2. (S=START LEAD OF COIL GROUP) (F=FINISH LEAD OF COIL GROUP)
3. #26 REGULATOR LEAD NOT REQUIRED FOR VR-3 OR VR-4 REGULATOR. IF SPECIFIED ON P/S, CONNECT PER DOTTED LOCATION ON DIAGRAM.
4. REGULATOR LEADS 20,22 AND 24 MAY BE EXTERNAL SEE STATOR PROCESS SHEET.



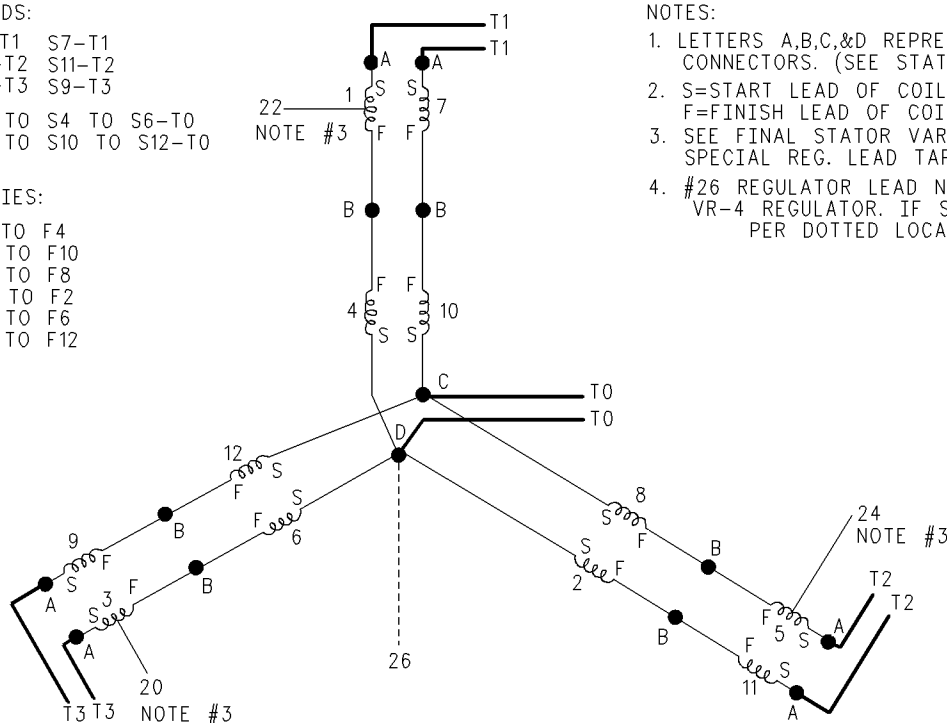
Connection Diagram 50

S1-T1	S7-T1
S5-T2	S11-T2
S3-T3	S9-T3

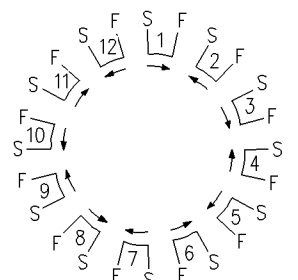
S2 TO S4 TO S6-T0
S8 TO S10 TO S12-T0

SERIES:

F1	TO	F4
F7	TO	F10
F5	TO	F8
F11	TO	F2
F3	TO	F6
F9	TO	F12



4. #26 REGULATOR LEAD NOT REQUIRED FOR VR-3 OR VR-4 REGULATOR. IF SPECIFIED ON P/S, CONNECT PER DOTTED LOCATION ON DIAGRAM.



4-POLE SINGLE VOLTAGE
WITH TAP
PHASE 1/2 WAVE EXCITER

Illustration 62

g00710243

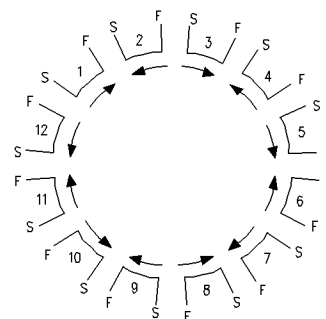
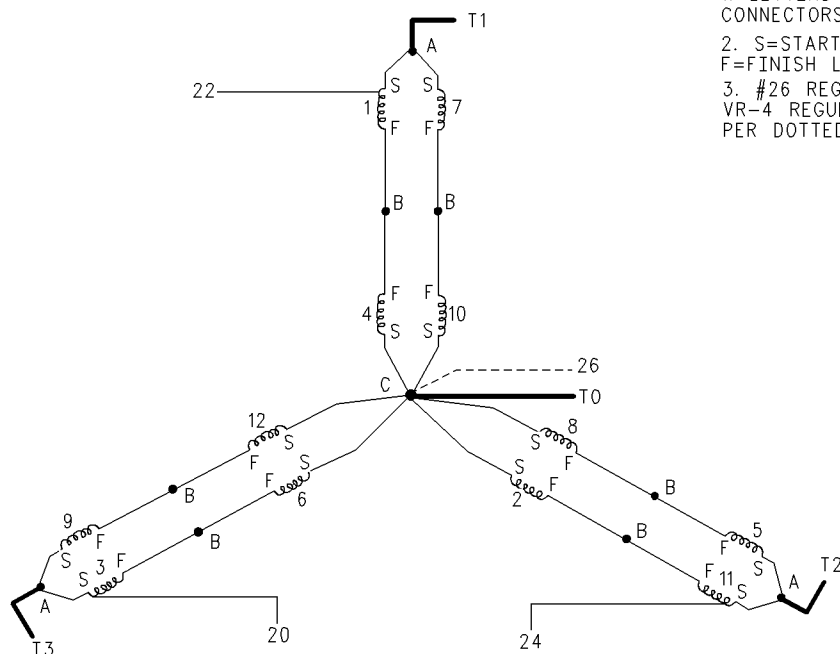
Connection Diagram 51

NOTES:

1. LETTERS A,B,C,&D REPRESENT PARALLEL SPLICE CONNECTORS. (SEE STATOR PROCESS SHEET)

2. S=START LEAD OF COIL GROUP
F=FINISH LEAD OF COIL GROUP

3. #26 REGULATOR LEAD NOT REQUIRED FOR VR-3 OR VR-4 REGULATOR. IF SPECIFIED ON P/S, CONNECT PER DOTTED LOCATION ON DIAGRAM.



4-POLE SINGLE VOLTAGE WITH TAP
PHASE 1/2 WAVE EXCITER

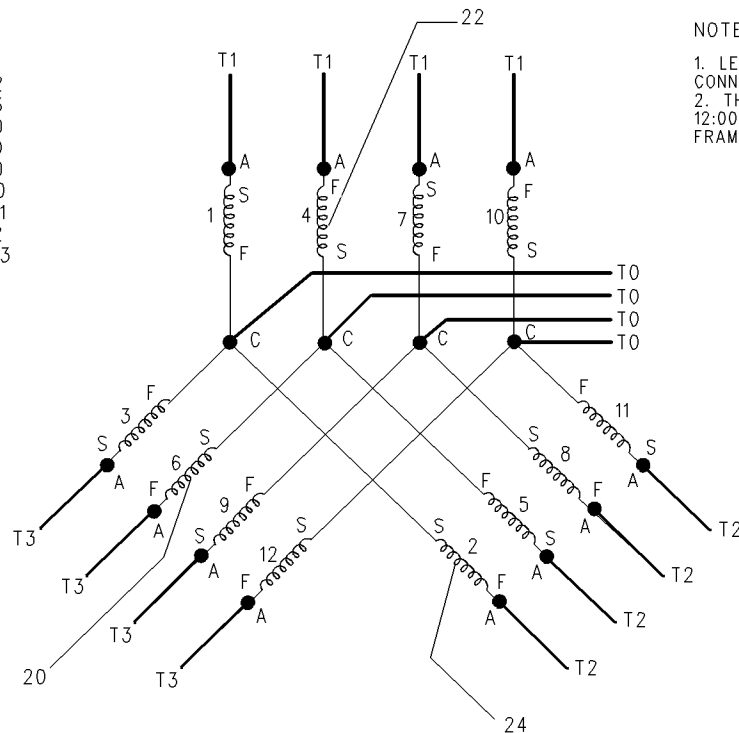
Illustration 63

g00710256

Connection Diagram 52

LEADS:

S1-T1 S7-T1
S11-T2 S5-T2
S3-T3 S9-T3
F1-T0 S2-T0
S4-T0 F5-T0
F7-T0 S8-T0
S10-T0 F11-T0
F4-T1 F10-T1
F8-T2 F2-T2
F6-T3 F12-T3
F3-T0
S6-T0
F9-T0
S12-T0



NOTES:

1. LETTERS A & C, REPRESENT PARALLEL SPLICE CONNECTIONS.
2. THIS LINE MARKS THE WINDING'S 12:00 O'CLOCK POSITION WITH THE STATOR FRAME AND CORE ASY.

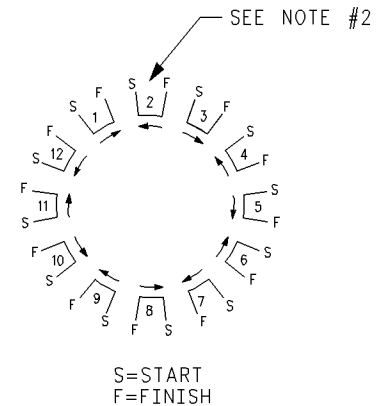


Illustration 64

g00710263

Connection Diagram 53

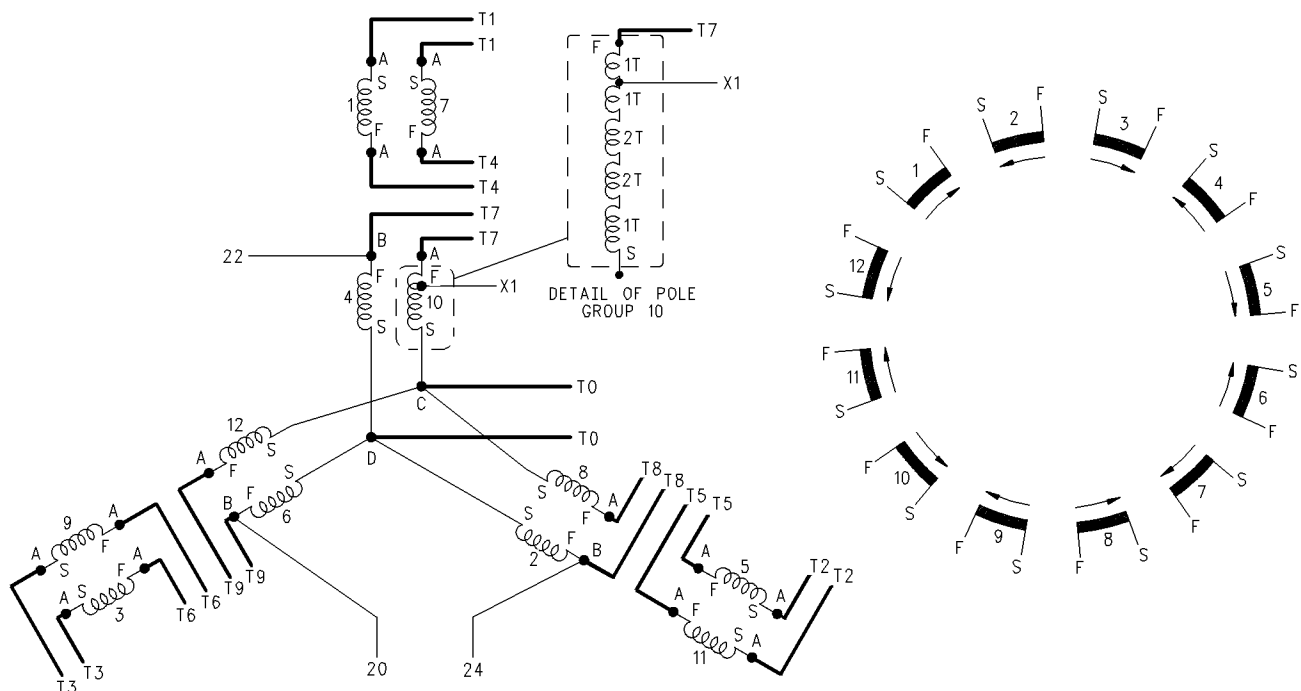


Illustration 65

g00710649

Connection Diagram 54

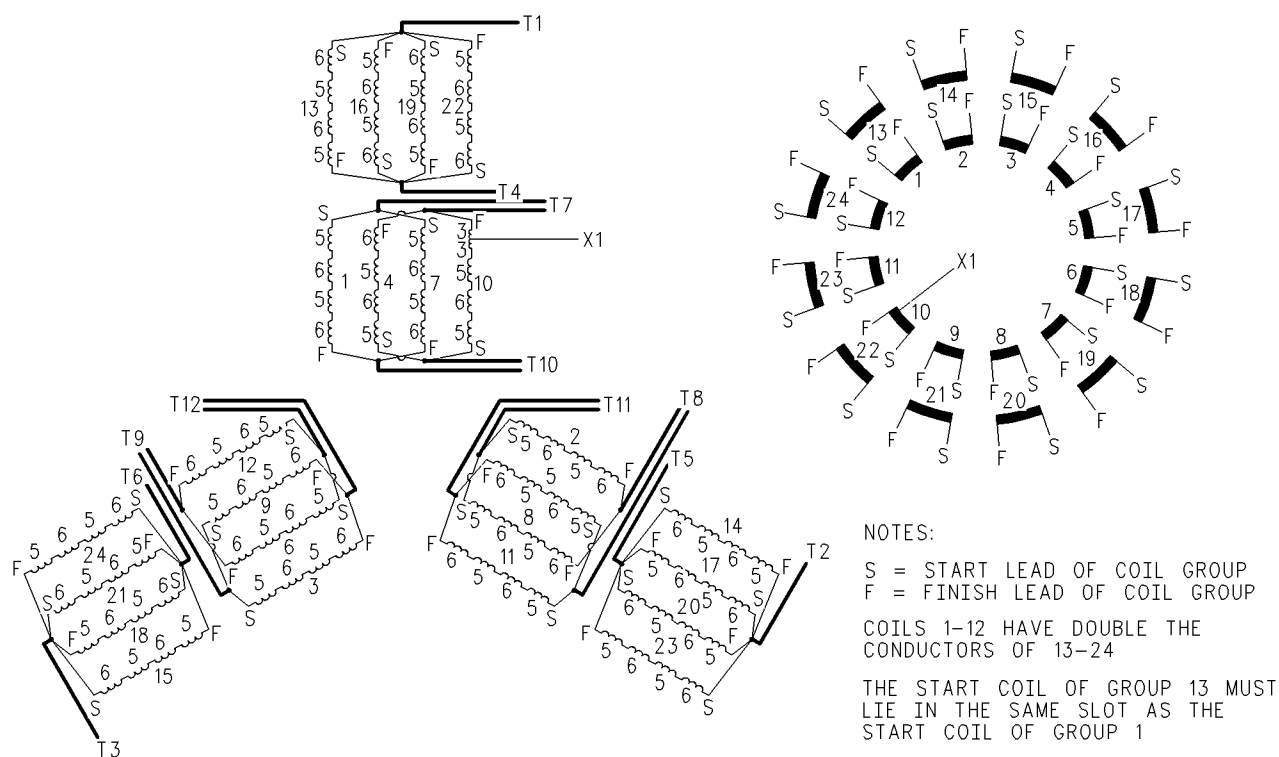


Illustration 66

g00710655

Connection Diagram 55

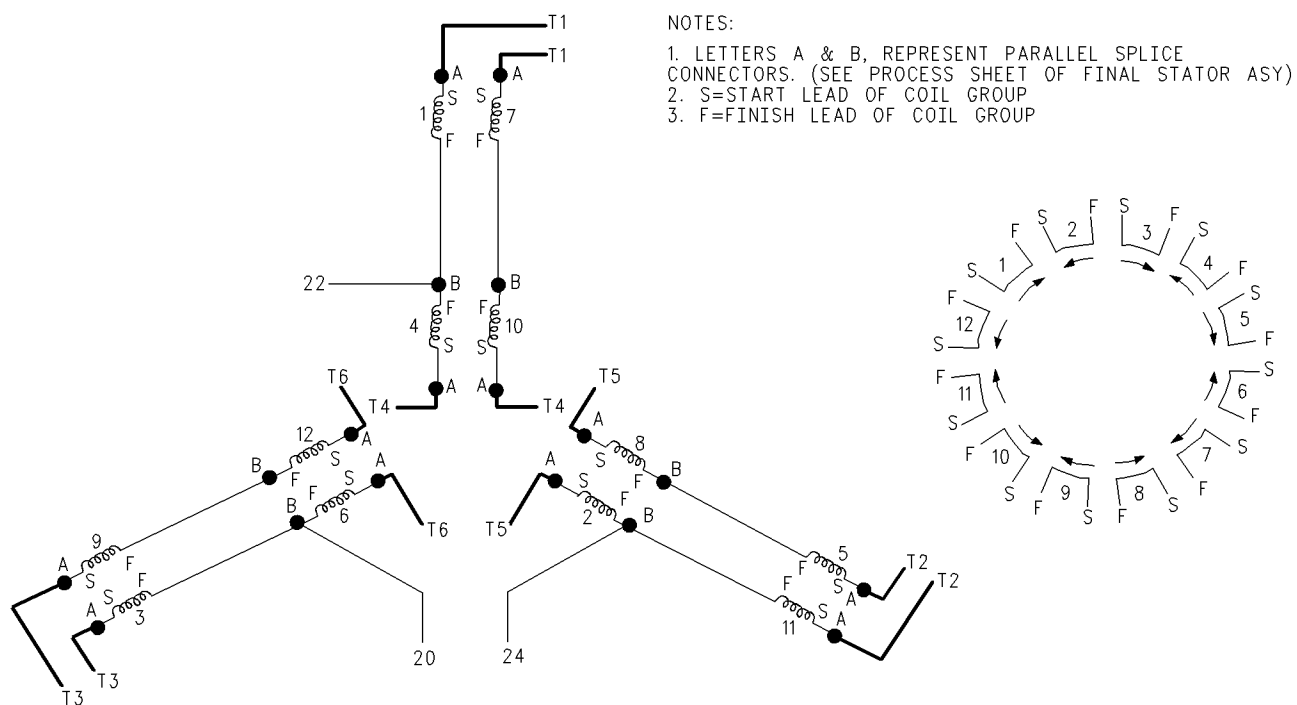


Illustration 67

g00710672

Connection Diagram 56

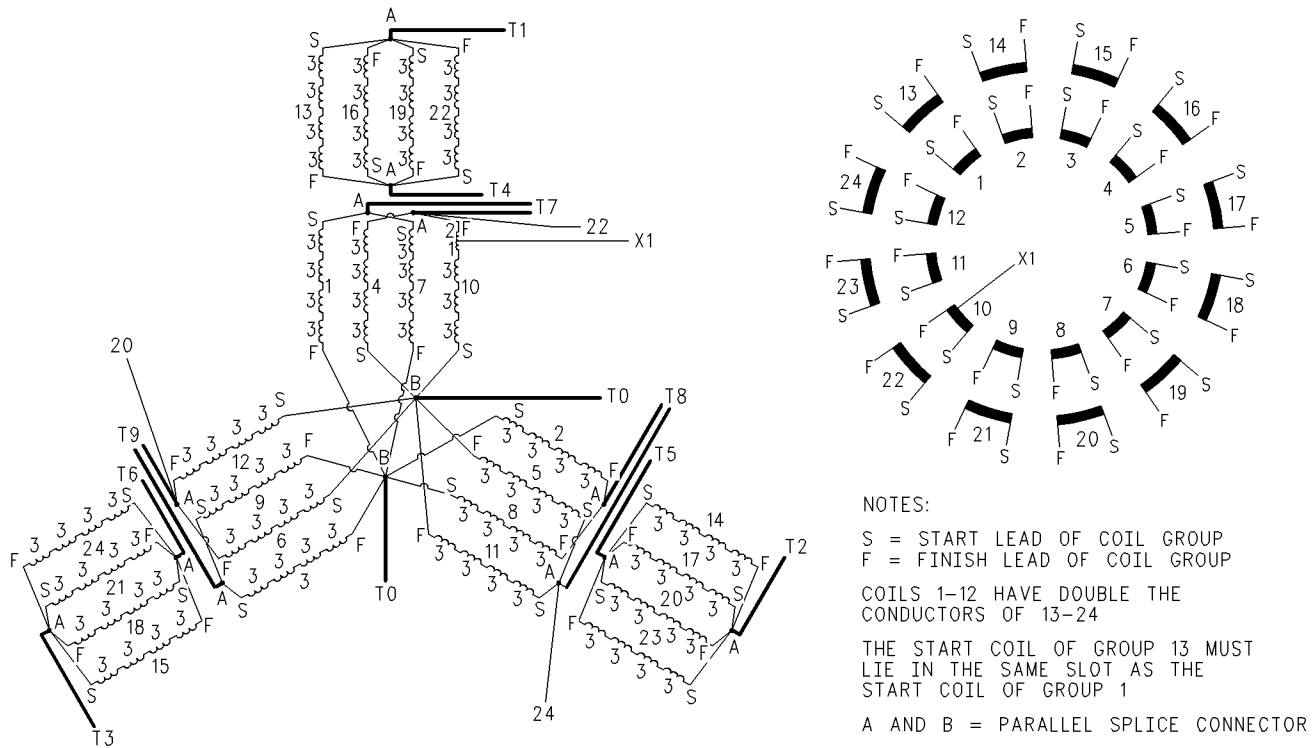


Illustration 68

g00710750

Connection Diagram 57

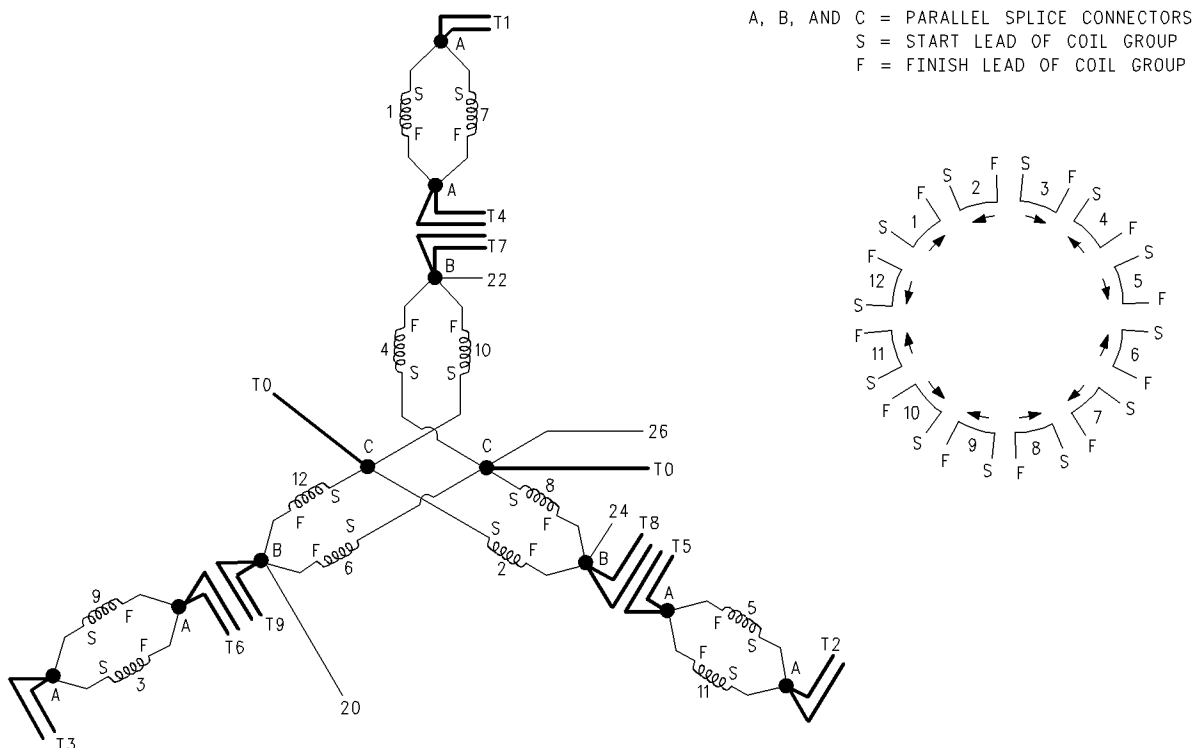


Illustration 69

g00710760

Connection Diagram 58

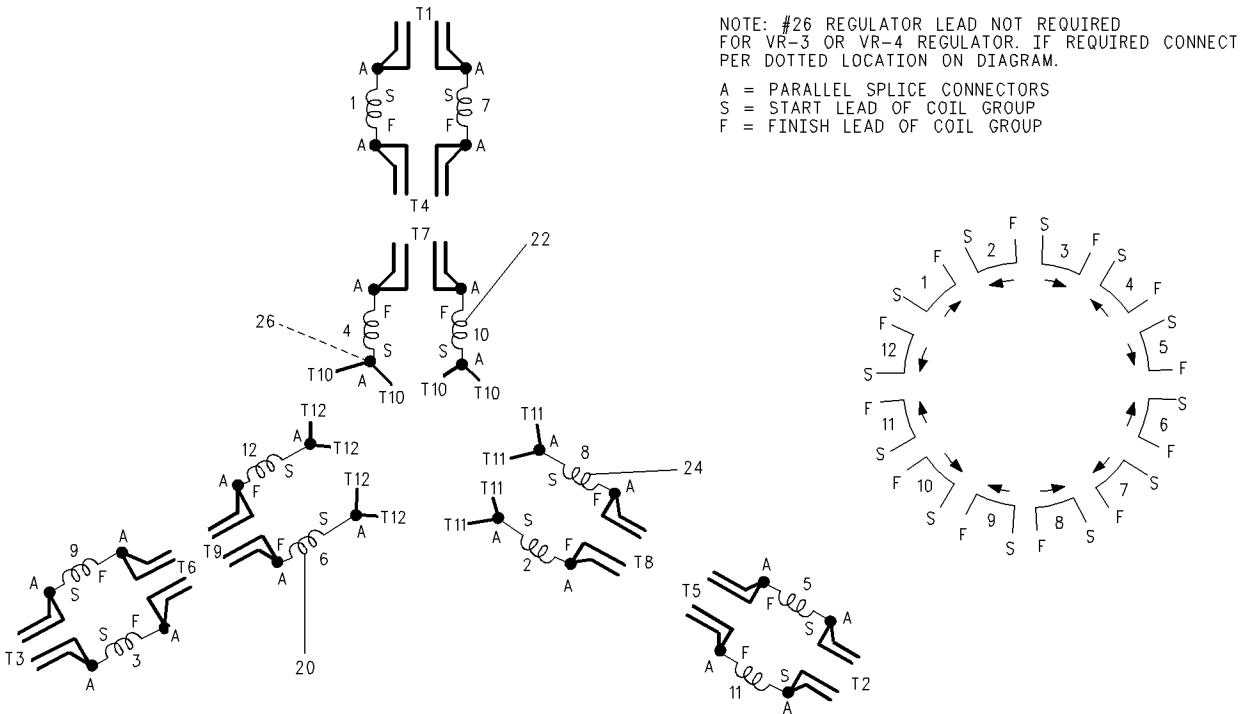


Illustration 70

g00710778

Connection Diagram 59

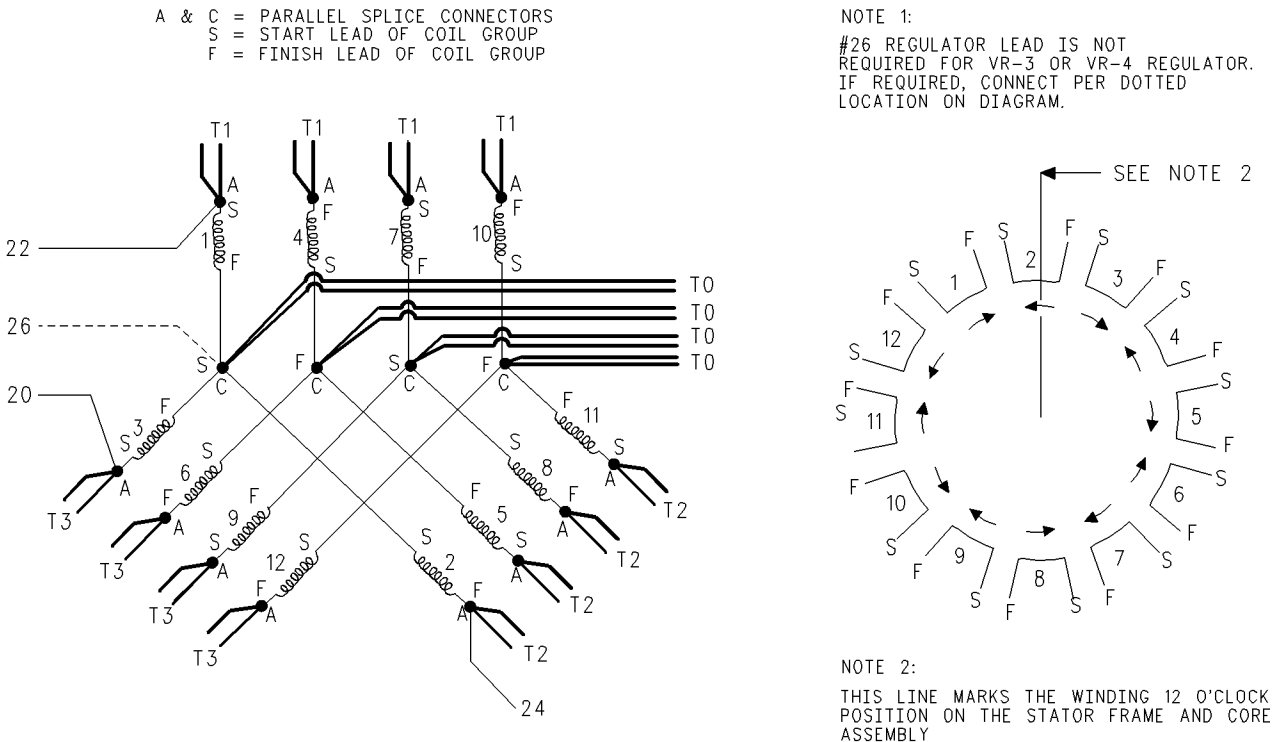


Illustration 71

g00710785

Connection Diagram 60

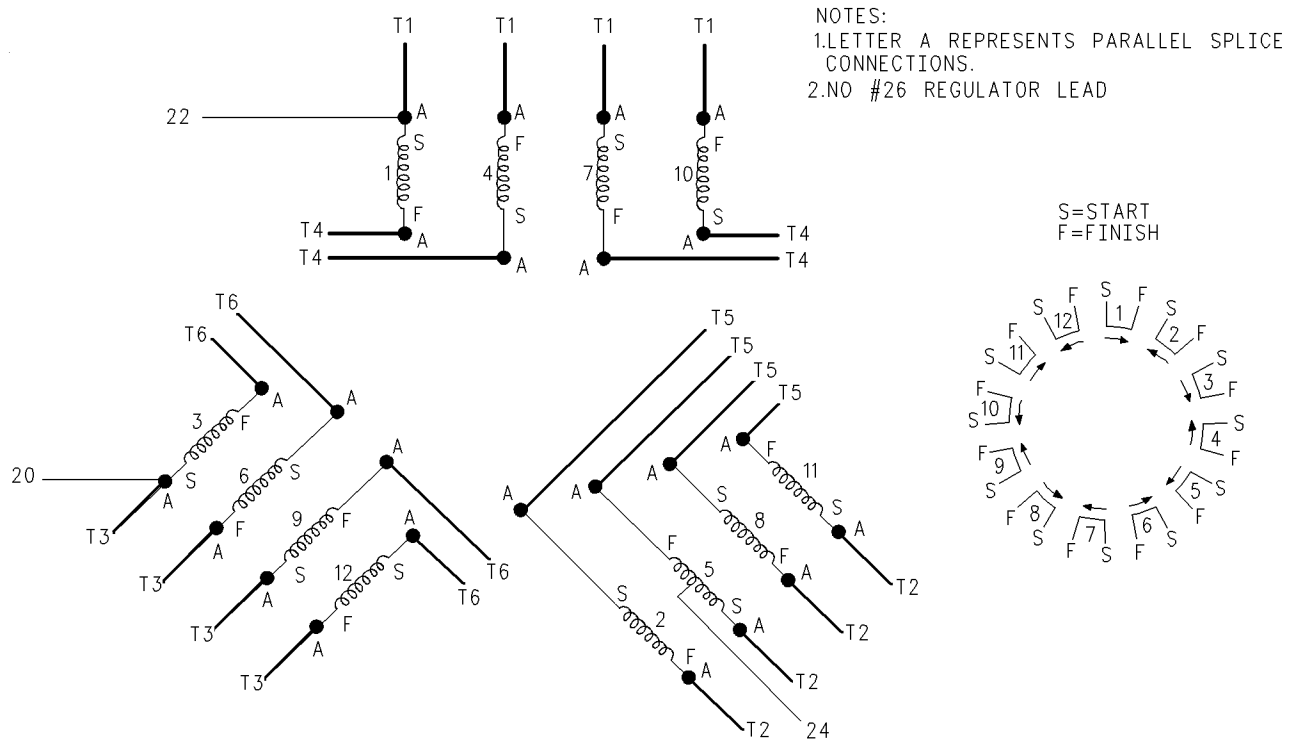


Illustration 72

g00710839

Connection Diagram 61

LEADS:

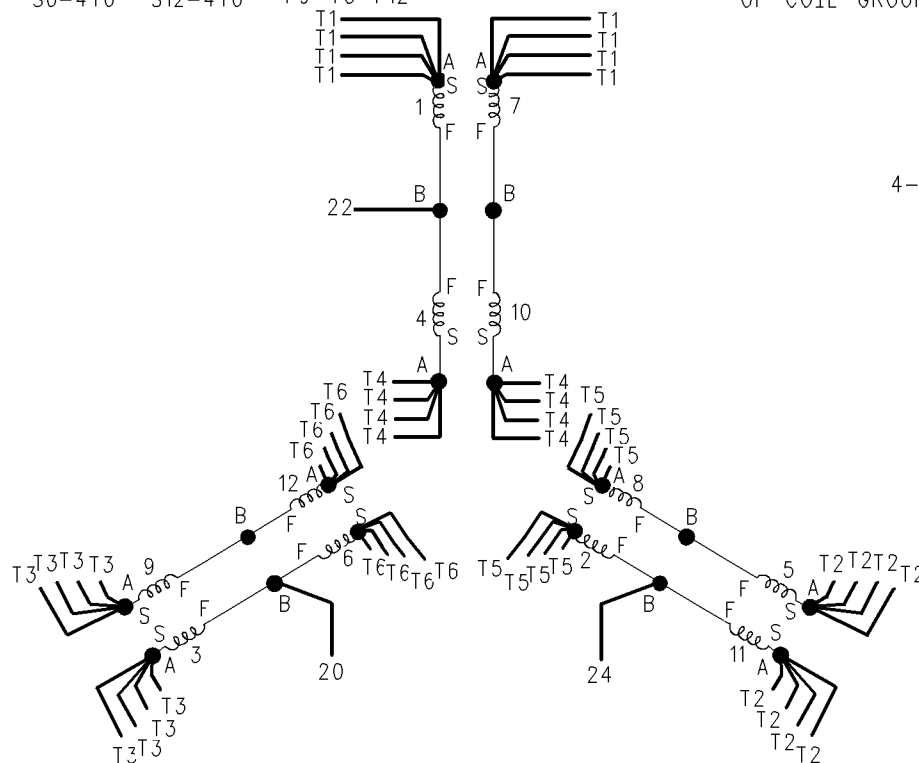
S1-4T1 S7-4T1
S5-4T2 S11-4T2
S3-4T3 S9-4T3
S4-4T4 S10-4T4
S8-4T5 S2-4T5
S6-4T6 S12-4T6

SERIES:

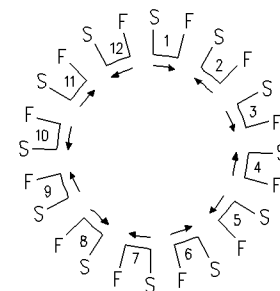
F1 TO F4
F7 TO F10
F5 TO F8
F11 TO F2
F3 TO F6
F9 TO F12

NOTES:

1. LETTERS A & B REPRESENT PARALLEL SPLICE CONNECTORS. (SEE STATOR PROCESS SHEET)
2. S=START LEAD OF COIL GROUP F=FINISH LEAD OF COIL GROUP



4-POLE SINGLE VOLTAGE WITH TAP



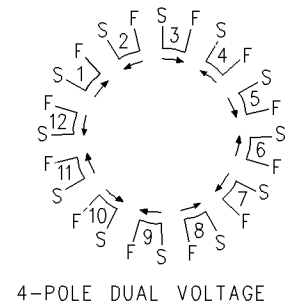
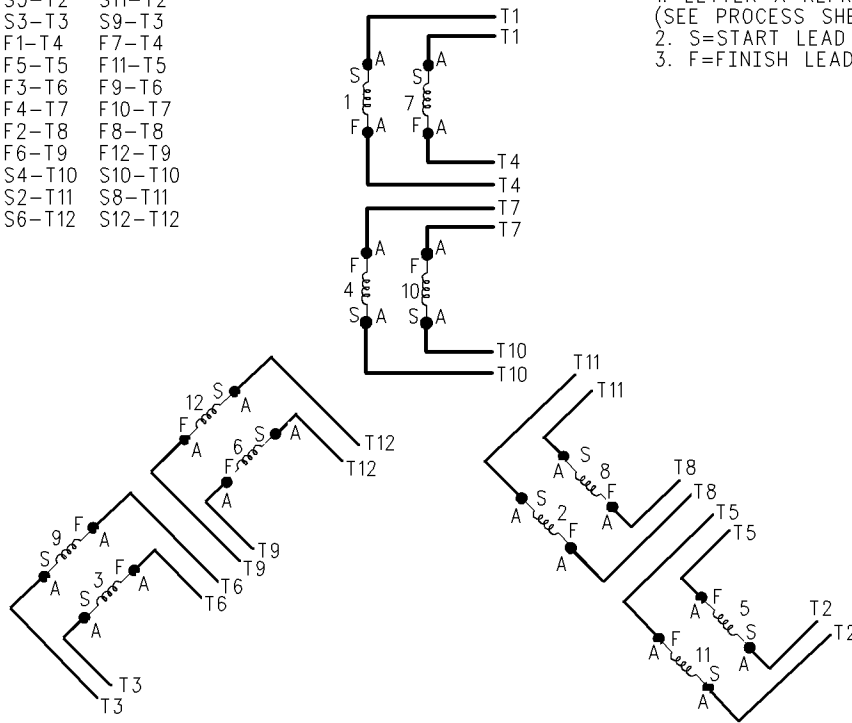
Connection Diagram 62

LEADS:

S1-T1	S7-T1
S5-T2	S11-T2
S3-T3	S9-T3
F1-T4	F7-T4
F5-T5	F11-T5
F3-T6	F9-T6
F4-T7	F10-T7
F2-T8	F8-T8
F6-T9	F12-T9
S4-T10	S10-T10
S2-T11	S8-T11
S6-T12	S12-T12

NOTES:

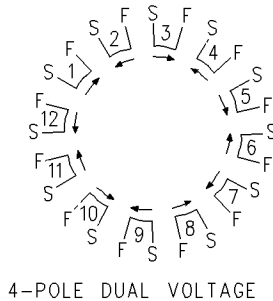
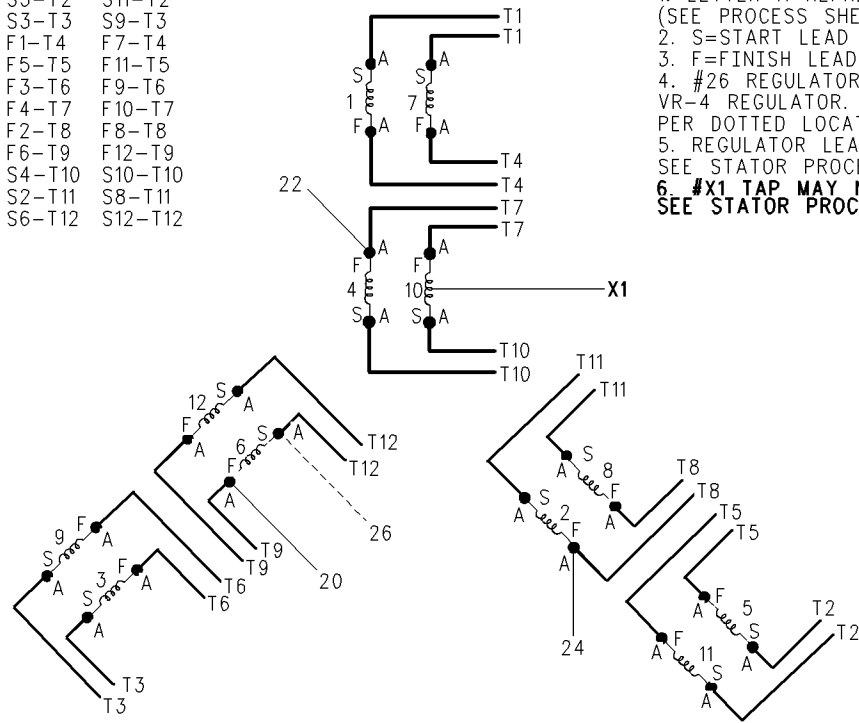
1. LETTER A REPRESENTS PARALLEL SPLICE CONNECTORS (SEE PROCESS SHEET)
2. S=START LEAD OF COIL GROUP
3. F=FINISH LEAD OF COIL GROUP



Connection Diagram 63

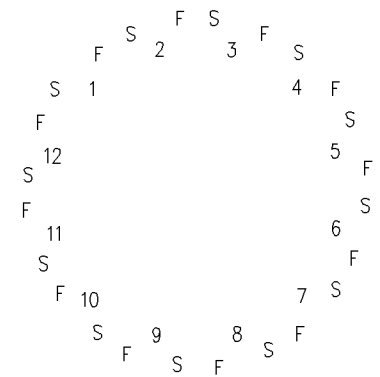
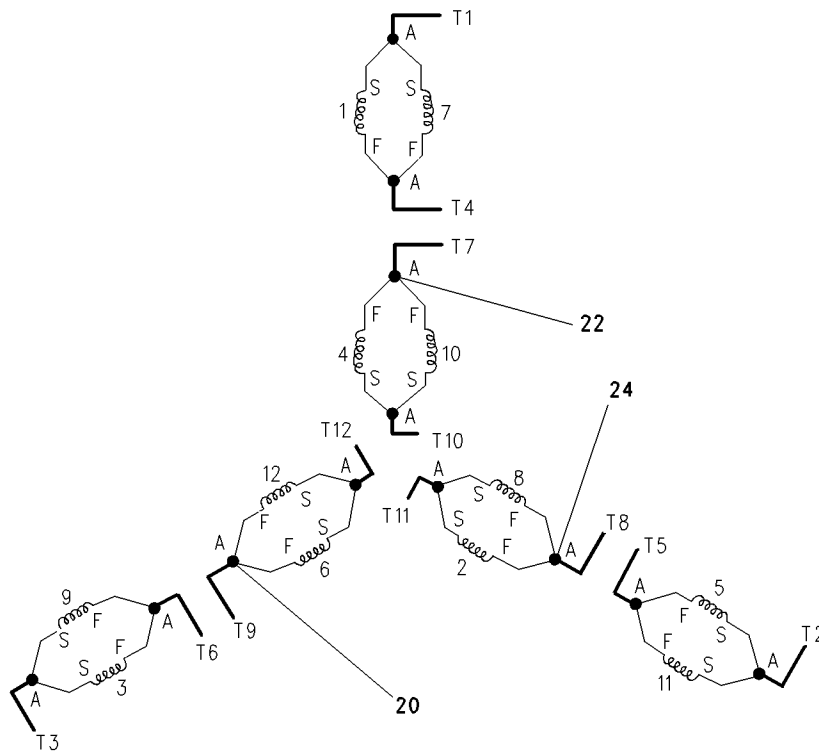
LEADS:
S1-T1 S7-T1
S5-T2 S11-T2
S3-T3 S9-T3
F1-T4 F7-T4
F5-T5 F11-T5
F3-T6 F9-T6
F4-T7 F10-T7
F2-T8 F8-T8
F6-T9 F12-T9
S4-T10 S10-T10
S2-T11 S8-T11
S6-T12 S12-T12

NOTES:
1. LETTER A REPRESENTS PARALLEL SPLICE CONNECTORS (SEE PROCESS SHEET)
2. S=START LEAD OF COIL GROUP
3. F=FINISH LEAD OF COIL GROUP
4. #26 REGULATOR LEAD NOT REQ'D. FOR VR-3 OR VR-4 REGULATOR. IF SPECIFIED ON P/S, CONNECT PER DOTTED LOCATION ON DIAGRAM.
5. REGULATOR LEADS 20,22 AND 24 MAY BE EXTERNAL SEE STATOR PROCESS SHEET
6. #X1 TAP MAY NOT BE REQUIRED SEE STATOR PROCESS SHEET



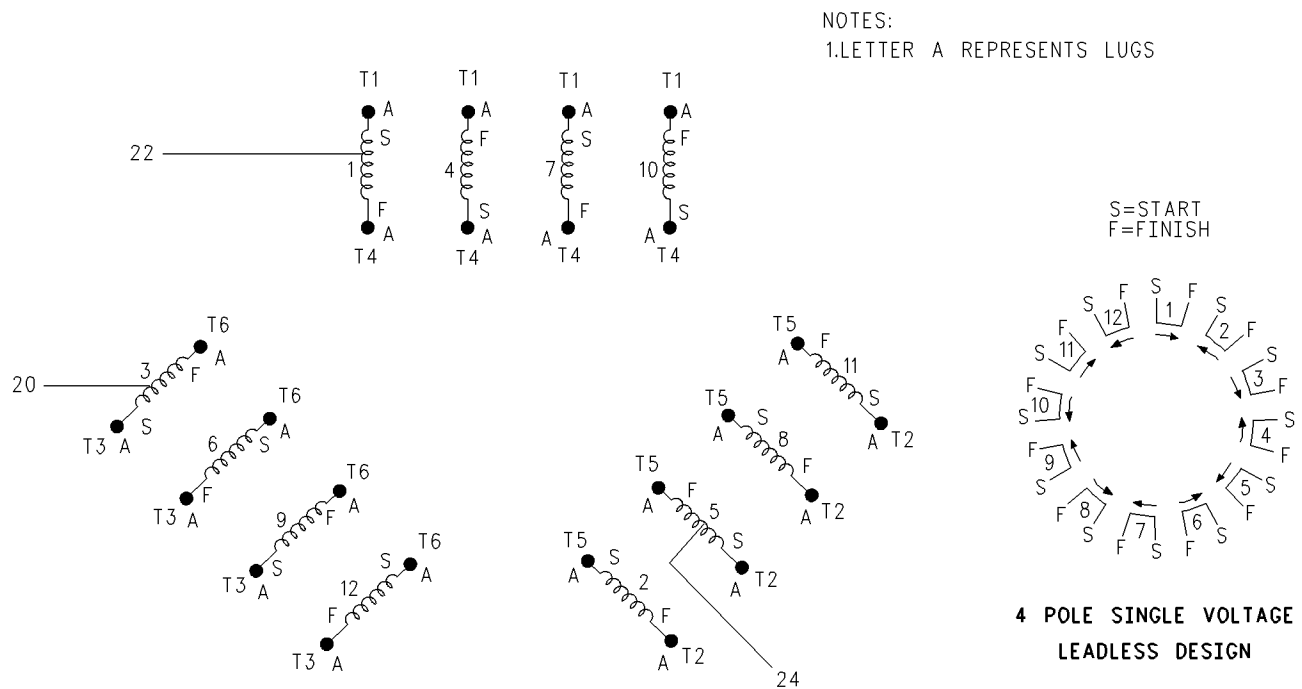
Connection Diagram 64

A=LUGS (SEE PROCESS SHEET)
S=START LEAD OF COIL GROUP
F=FINISH LEAD COIL GROUP



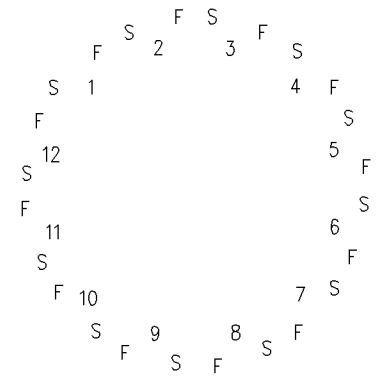
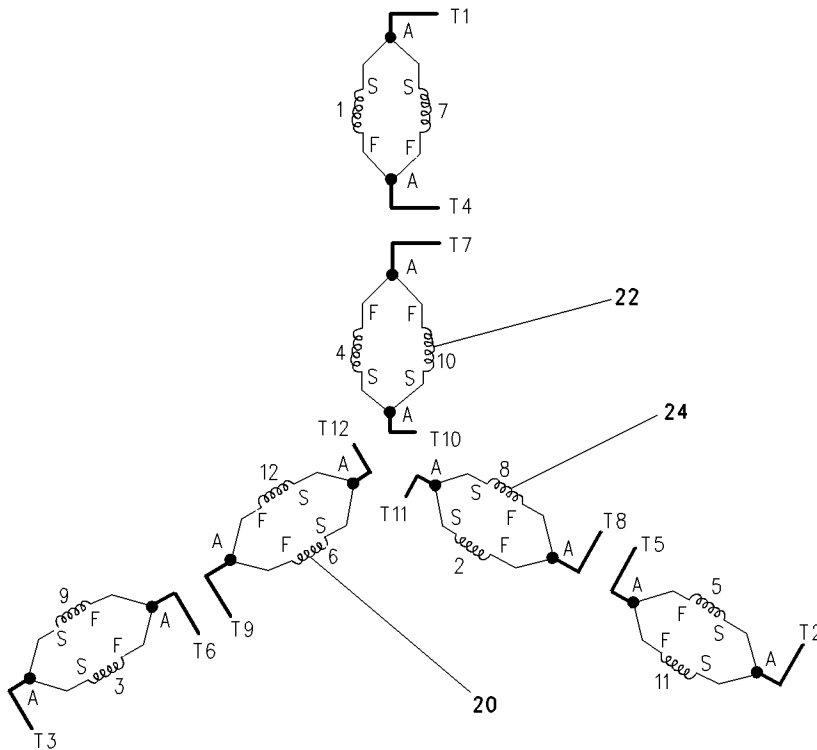
4 POLE DUAL VOLTAGE
LEADLESS DESIGN

Connection Diagram 65



Connection Diagram 66

A=LUGS (SEE PROCESS SHEET)
S=START LEAD OF COIL GROUP
F=FINISH LEAD OF COIL GROUP



**4 POLE DUAL VOLTAGE
LEADLESS DESIGN**

i01220363

Connection Diagrams for Exciter

SMCS Code: 7566

Connection Diagram A

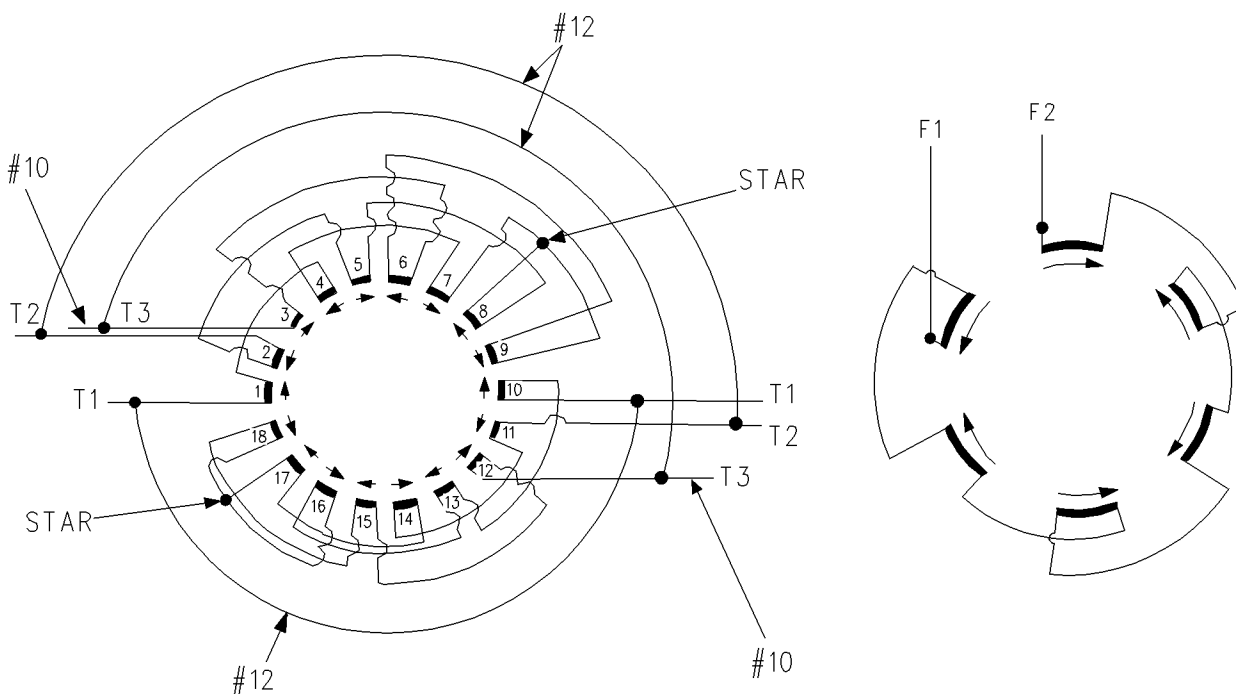


Illustration 79

g00726195

Connection Diagram B

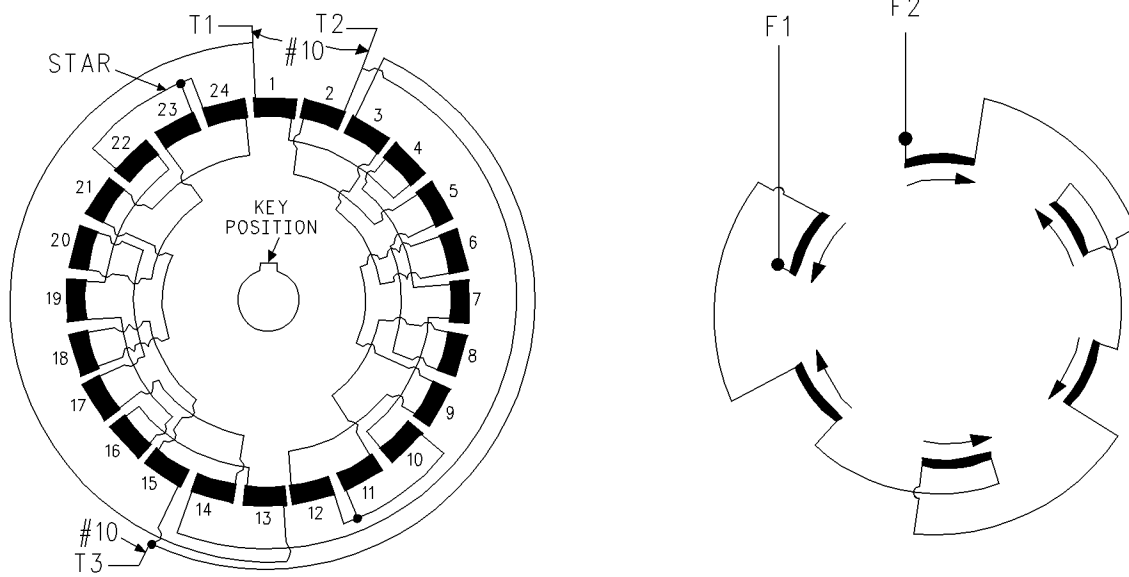


Illustration 80

g00726238

Connection Diagram C

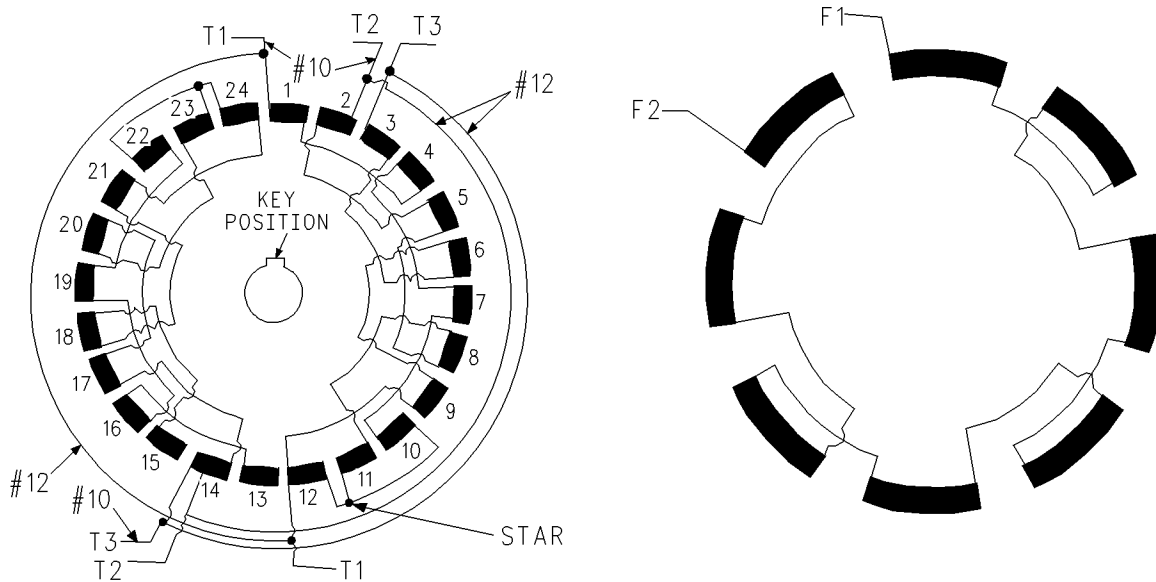


Illustration 81

g00711057

Connection Diagram D

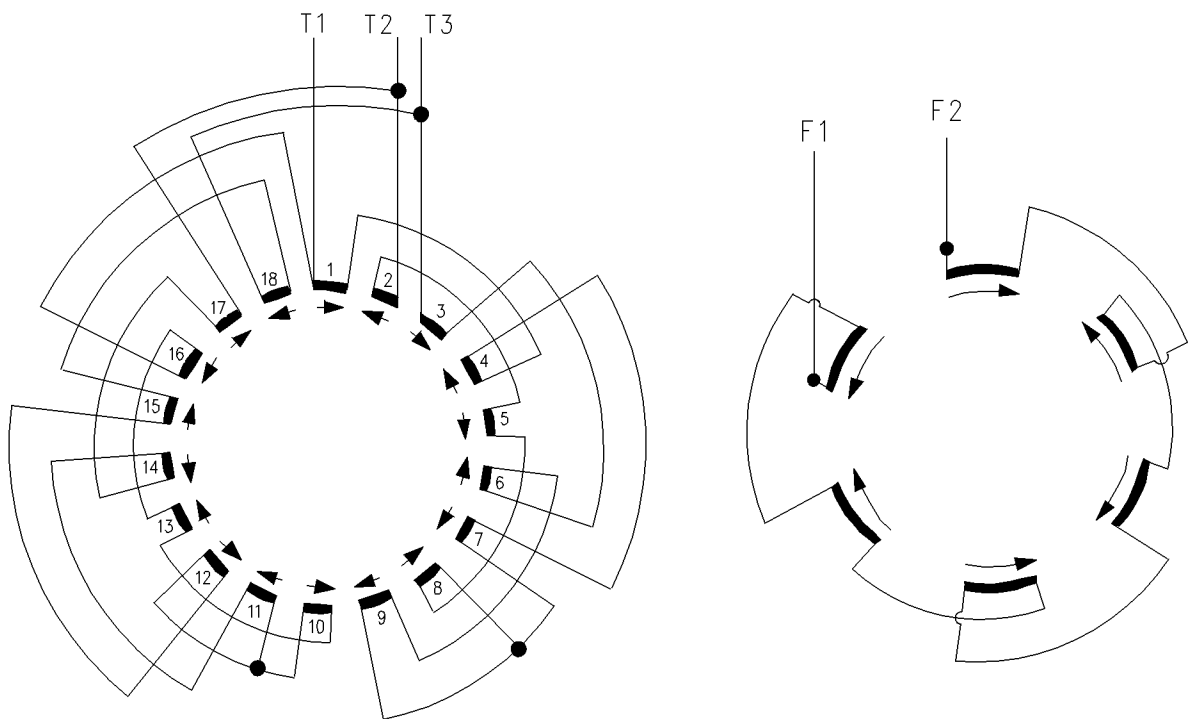


Illustration 82

g00711185

Connection Diagram E

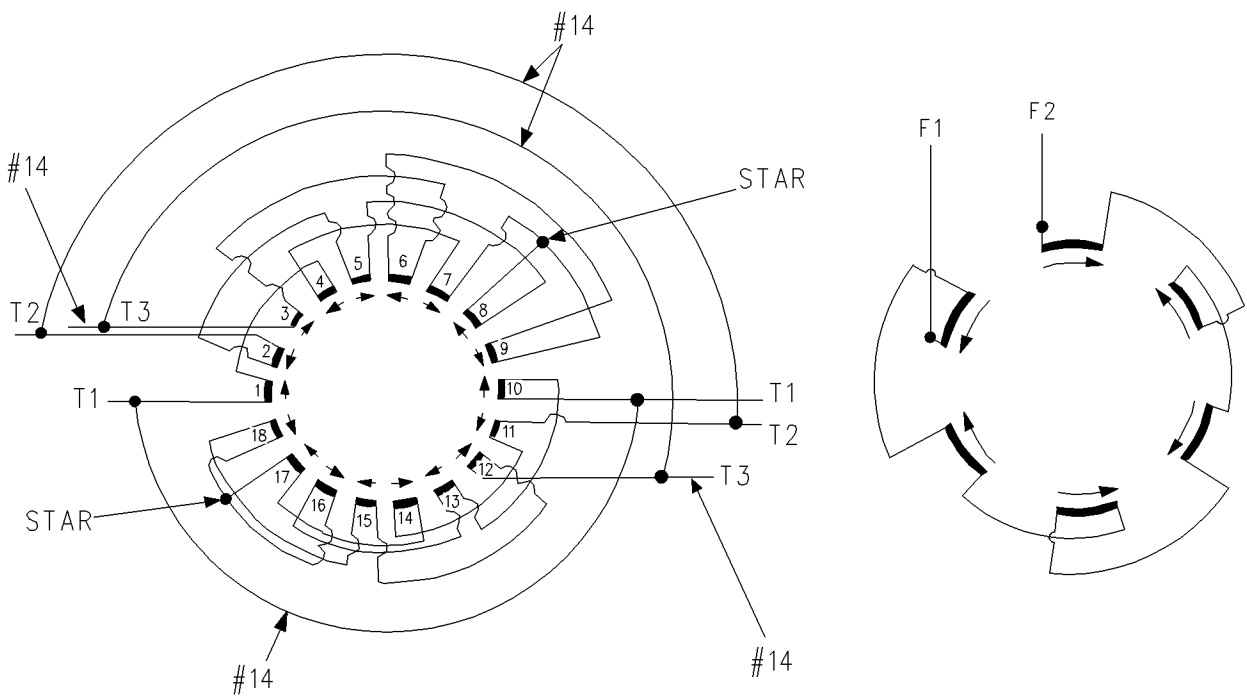


Illustration 83

g00711200

Connection Diagram F

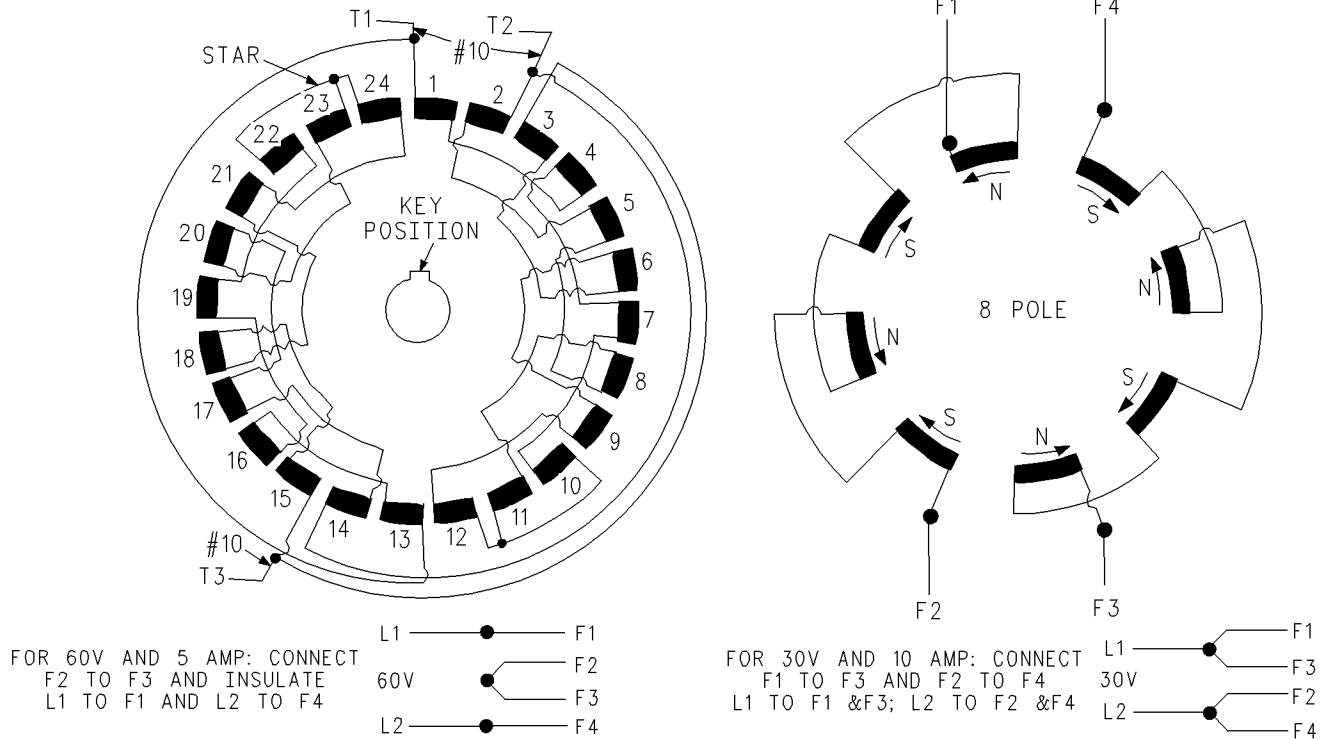


Illustration 84

g00711223

Connection Diagram G

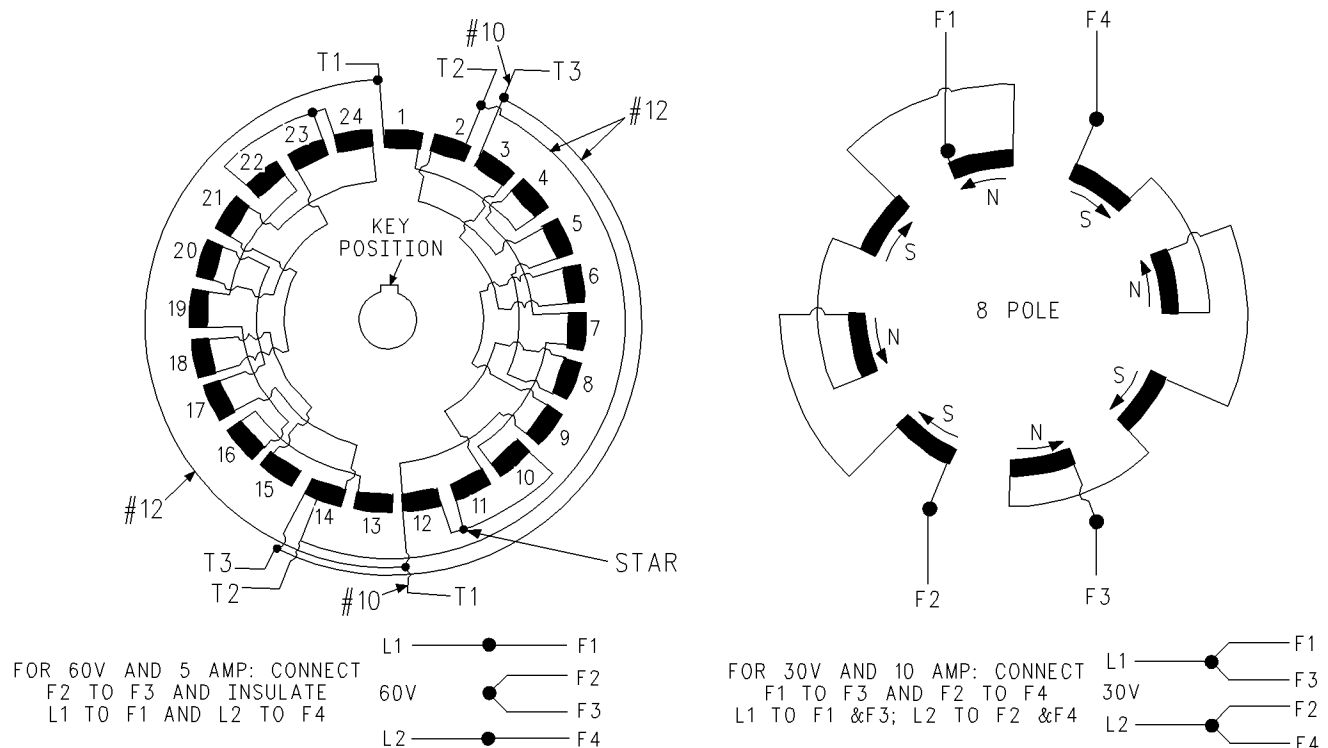


Illustration 85

g00711227

Connection Diagram H

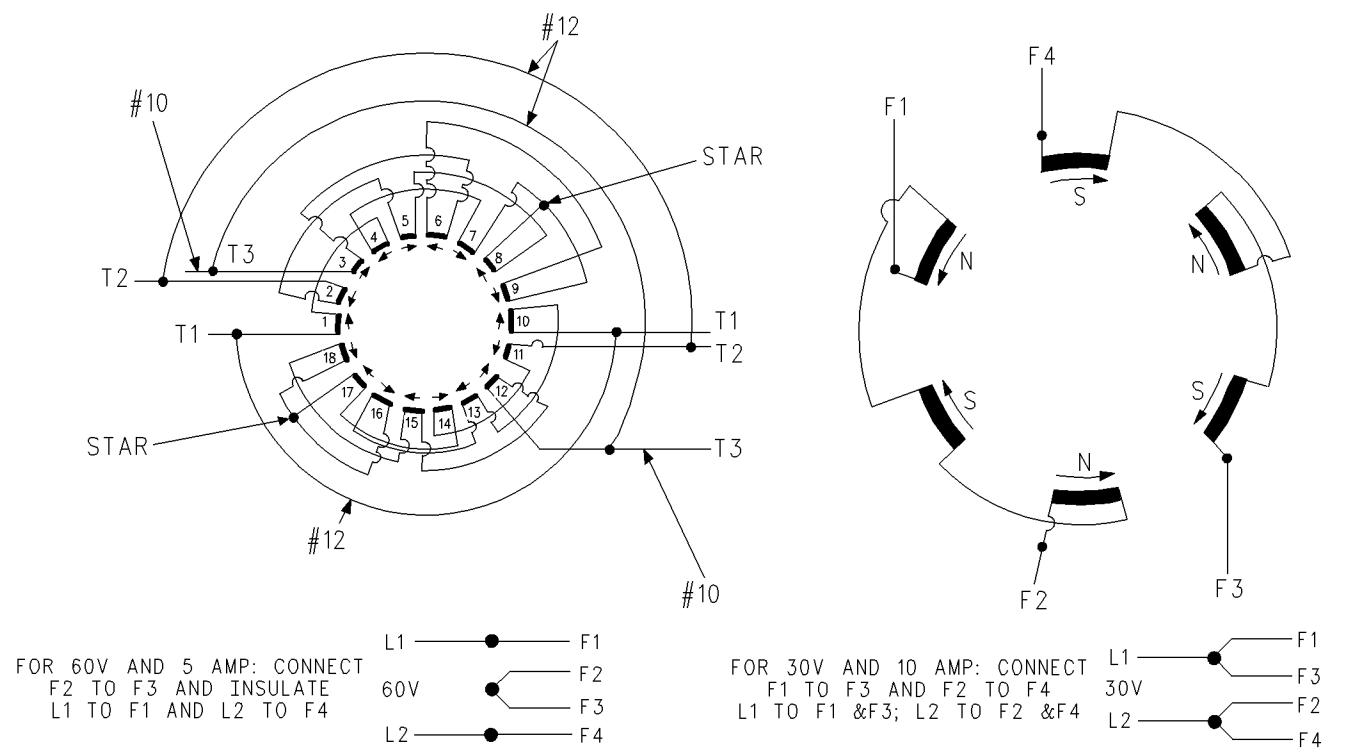


Illustration 86

g00711248

Connection Diagram I

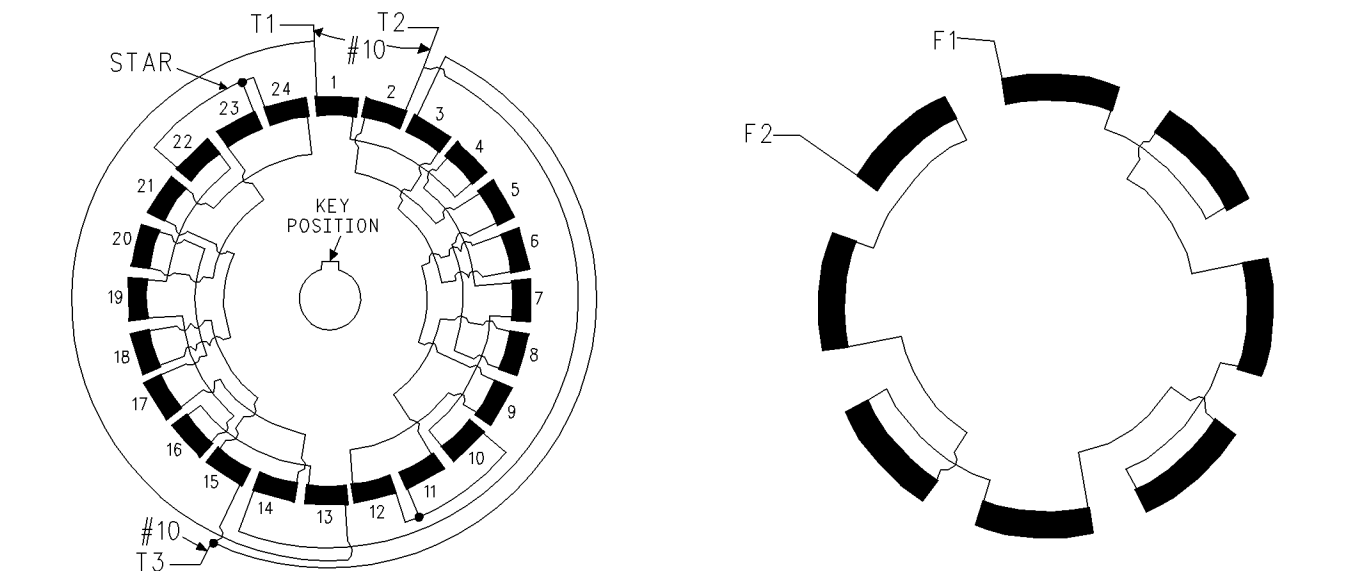


Illustration 87

g00711682

i01635517

Generator Identification

SMCS Code: 4450

Table 757

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
4P - 2237	4P - 2236	6FA	589	380	-	3412/3412C
4P - 2239	4P - 2238 (1)(7)(8)(19)(20)(26)(28)(30)	5UA	681	380	-	3508 TA
4P - 2241	4P - 2240 (1)(7)(8)(19)(20)(26)(28)(30)	6NA	685	380	-	3508 TA/3512 TA
4P - 2243	4P - 2242 (1)(7)(8)(19)(20)(26)(28)(30)	5TD	687	380	-	3512 TA
4P - 2247	4P - 2246 (1)(7)(8)(19)(20)(26)(28)(31)	6SA	807	380	-	3516 TA
4P - 3016	4P - 3015 (1)(2)(4)(12)(13)(19)(20)(26)	6SA	807	4160	3300	3512 TA/3516 TA
4P - 3386	7E - 1243	8JF	447	240-480	200-400	3306/3306B/ G3306/3406/ 3406B/3406C/ G3406
4P - 4534	4P - 4533 (1)(2)(3)(4)(5)(19)(20)(26)	3GN	690	480	400	3508
4P - 4542	4P - 4541 (1)(2)(3)(4)(5)(19)(20)(26)	3HN	691	480	400	3508
4P - 4544	4P - 4543 (1)(2)(3)(4)(5)(19)(20)(26)	4WN	692	480	400	3508/3512
4P - 4546	4P - 4545 (1)(2)(3)(4)(5)(19)(20)(26)	6SN	693	480	400	3512/3512B
4P - 4552	4P - 4551	8LF	449	600	-	3406B/3406C
4P - 4566	4P - 4565 (1)(2)(8)(19)(20)(26)(28)(30)	6PA	689	600	-	3512 TA
4P - 4568	4P - 4567 (1)(2)(3)(4)(5)(19)(20)(26)	7DN	695	480	400	3512/3512B
4P - 4570	4P - 4569 (1)(2)(3)(4)(5)(19)(20)(26)	8HM	696	480	400	3512/3512B
4P - 4572	4P - 4571 (1)(2)(4)(12)(19)(20)(26)(28)	2ED	808	600	-	3516 TA
4P - 4574	4P - 4573 (1)(2)(3)(4)(5)(19)(20)(26)	4EN	822	480	400	3512/3512B/ 3516
4P - 4576	4P - 4575 (1)(2)(4)(5)(19)(20)(26)	5WN	824	480	400	3512/3512B/ 3516
4P - 4578	4P - 4577 (2)(3)(4)(5)(6)(19)(20)(26)	4FN	825	480	400	3512B/3516/ 3516B
4P - 4580	4P - 4579 (1)(2)(8)(11)(19)(20)(26)	7TN	826	480	400	3516/3516B
4P - 4582	4P - 4581 (1)(2)(8)(11)(19)(20)(26)	3FN	691	600	-	3508
4P - 4584	4P - 4583 (1)(2)(8)(11)(19)(20)(26)	2DN	692	600	-	3508/3512

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
4P - 4586	4P - 4585 (1)(2)(4)(12)(19)(20)(26)	2FN	695	600	-	3512/3512B
4P - 4588	4P - 4587 (1)(2)(4)(12)(19)(20)(26)	2HN	822	600	-	3512/3512B/ 3516
4P - 4590	4P - 4589 (1)(2)(4)(12)(19)(20)(26)	5SN	824	600	-	3512/3512B/ 3516
4P - 4597	4P - 4596 (2)(4)(6)(12)(19)(20)(26)	8NN	825	600	-	3512B/3516/ 3516B
4P - 4599	4P - 4598 (2)(4)(6)(12)(19)(20)(26)	2SN	826	600	-	3516/3516B
4P - 4601	4P - 4600 (2)(3)(4)(5)(9)(19)(20)(26)	9CN	827	600	-	3516/3516B
4W - 7050	4W - 7049 (19)(20)(21)(26)	9GF	450	240-480	200-400	3406 TA
4P - 7271	4P - 7270 (4)(5)(6)(19)(20)(23)(27)	5ZA	807	600	-	3512 TA
4P - 7273	4P - 7272 (4)(5)(6)(19)(20)(23)(27)	8ZD	804	600	-	35-08TA
4P - 7699	4P - 7698	6DG	445	600	-	3306/3306B
4P - 9687	4P - 9688	5CK	449	240-480	200-400	3406B/3406C
4P - 9689	4P - 9690	6PK	448	240-480	200-400	3306/3306B
4P - 9691	4P - 9692	8GK	443	240-480	200-400	3304B
4P - 9901	4P - 9905	7CF	448	240-480	200-400	3304B
4P - 9902	4P - 9906	5CG	449	240-480	200-400	3406B/3406C
4P - 9903	4P - 9907	1JJ	450	240-480	200-400	3406B/3406C
4W - 7396	4W - 6905 (2)(10)(19)(20)(21)(26)	9BA509	449	240-480	200-400	3406 T, TA
4W - 8955	4W - 8950 ⁽¹⁹⁾⁽²⁰⁾	6RA576	364	240-480	200-400	3304 NA
4W - 8956	4W - 8951 ⁽¹⁹⁾⁽²⁰⁾	6ZA577	367	240-480	200-400	3304 T
4W - 8957	4W - 8952 ⁽¹⁹⁾⁽²⁰⁾	9AB578	368	240-480	200-400	3304 T
4W - 8958	4W - 8953 (2)(10)(19)(20)	-	368	240-480	200-400	3304 T
4W - 8959	4W - 8954 ⁽¹⁹⁾⁽²⁰⁾	9BB579	368	240-480	200-400	3208 NA, T
4W - 8962	4W - 7421 (19)(20)(21)(26)	5AA3000	365	240-480	200-400	3304 NA, T
4W - 8963	4W - 7423 ⁽¹⁹⁾⁽²⁰⁾	5AA3000	365	240-480	200-400	3304 NA, T
4W - 8964	4W - 7424 ⁽¹⁹⁾⁽²⁰⁾	5CA3000	444	240-480	200-400	3304 T, 3306 T
4W - 8966	4W - 7427 ⁽¹⁹⁾⁽²⁰⁾	5DA3000	445	240-480	200-400	3306 T, TA, 3306 SITA
4W - 8967	4W - 7429 ⁽²⁾⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾	5DA3000	445	240-480	200-400	3306 T, TA
4W - 8968	4W - 7430 ⁽¹⁹⁾⁽²⁰⁾	5EA3000	446	240-480	200-400	3306 T, TA
4W - 8970	4W - 7433 ⁽¹⁹⁾⁽²⁰⁾	6GA521	367	240-480	200-400	3208 NA

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
4W-8971	4W-7434 ⁽¹⁹⁾⁽²⁰⁾	6JA523	445	240-480	200-400	3208 T
4W-9070	4W-9069 ⁽²⁾⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾	6DA511	584	240-480	200-400	3408 DITA
4W-9656	4W-7422 ⁽²⁾⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²¹⁾⁽²⁶⁾	5AA3000	365	300-600	240-480	3304 NA, T
4W-9657	4W-7425 ⁽¹⁹⁾⁽²⁰⁾	5CA3000	444	300-600	240-480	3304 T, 3306 T
4W-9658	4W-7428 ⁽¹⁹⁾⁽²⁰⁾	5DA3000	445	300-600	240-480	3306 T, TA, 3306 SITA
4W-9659	4W-7431 ⁽¹⁹⁾⁽²⁰⁾	5EA3000	446	300-600	240-480	Series 3306 T, TA
4W-9660	4W-0183 ⁽¹⁹⁾⁽²⁰⁾⁽²¹⁾⁽²⁶⁾	6GA521	367	300-600	240-480	3208 NA
4W-9661	4W-0184 ⁽¹⁹⁾⁽²⁰⁾⁽²¹⁾⁽²⁶⁾	6JA523	445	300-600	240-480	3208 T
4W-9662	4W-9666 ⁽¹⁹⁾⁽²⁰⁾	6RA576	364	300-600	240-480	3304 NA
4W-9663	4W-9667 ⁽¹⁹⁾⁽²⁰⁾	6ZA576	367	300-600	240-480	3304 T
4W-9664	4W-9668 ⁽¹⁹⁾⁽²⁰⁾	9AB578	363	300-600	240-480	3304 T
4W-9665	4W-9669 ⁽¹⁹⁾⁽²⁰⁾	9BB579	368	300-600	240-480	3208 NA, T
5N-0555	5N-7240 ⁽²⁶⁾	6MA 1-UP	589	240-480	200-400	3508
5N-0556	5N-7241 ⁽²⁶⁾	6MA 1-UP	589	600	500	3508
5N-0557	5N-7242 ⁽²⁶⁾	6MA 1-UP	589	240-480	200-400	3508
5N-0558	5N-7243 ⁽²⁶⁾	6MA 1-UP	589	600	500	3508
5N-0559	5N-7244 ⁽²⁶⁾	6NA 1-UP	685	240-480	200-400	3512
5N-0560	5N-7245 ⁽²⁶⁾	6NA 1-UP	685	600	500	3512
5N-0561	5N-7246 ⁽²⁶⁾	6NA 1-UP	685	240-480	200-400	3512
5N-0562	5N-7247 ⁽²⁶⁾	6NA 1-UP	685	600	500	3512
5N-0563	5N-7248 ⁽²⁶⁾	6PA 1-UP	689	240-480	200-400	3516
5N-0564	5N-7249 ⁽²⁶⁾	6PA 1-UP	689	600	500	3516
5N-0565	5N-7250 ⁽²⁶⁾	6PA 1-UP	689	240-480	200-400	3516
5N-0566	5N-7251 ⁽²⁶⁾	6PA 1-UP	689	600	500	3516
5N-0571	5N-7256 ⁽¹⁴⁾⁽²⁶⁾	6SA 1-UP	807	480	-	3516
5N-0572	5N-7257 ⁽¹⁴⁾⁽²⁶⁾	6SA 1-UP	807	600	-	3516

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
5N-0573	5N-7258 ⁽¹⁴⁾⁽²⁶⁾	6SA 1-UP	807	480	-	3516
5N-0574	5N-7259 ⁽¹⁴⁾⁽²⁶⁾	6SA 1-UP	807	600	-	3516
5N-0679	5N-0431 ⁽¹⁴⁾⁽²⁷⁾	6LA 1-Up	809	480	-	D399
-	5N-0001 (10)(19)(20)(26)	-	365	240-480	200-400	3304 NA
-	5N-0002 (10)(19)(20)(26)	-	444	240-480	200-400	3304 T
5N-5034	5N-0002 (10)(19)(20)(26)	5CA	444	240-480	200-400	3304 T 3306 T
-	5N-0003 (10)(19)(20)(26)	-	445	240-480	200-400	3306 T
5N-5035	5N-0003 (10)(19)(20)(26)	5DA	445	240-480	200-400	3306 T
-	5N-0004 (10)(19)(20)(26)	-	447	240-480	200-400	D334
-	5N-0005 (10)(19)(20)(26)	-	449	240-480	200-400	D343
-	5N-0006 (10)(19)(20)(26)	-	448	240-480	200-400	3406 PC 3406 TA
-	5N-0007 (10)(19)(20)(26)			240-480	200-400	3406 DI 3406 T
-	5N-0010 (16)(19)(20)(26)	-	445	208-416	-	D333T
-	5N-0011 (16)(19)(20)(26)	-	445	240-480	200-400	D333T
-	5N-0012 (16)(19)(20)(26)	-	449	240-480	200-400	D343
-	5N-0013 (10)(19)(20)(26)	-	449A	240-480	200-400	3408 DI 3408 T
-	5N-0014 (17)(19)(20)(26)	-	444	208-416	-	3304 T
5N-5038	5N-8903 (10)(19)(20)(26)	5HA 1	448	240-480	200-400	3406 DI, TA/PC, TA
5N-5039	5N-8895 (10)(19)(20)(26)	5GA 1	447	300-600	240-480	3406 DI, T
5N-5046	5N-0014 (19)(20)(26)	5CA	444	208-416	-	3304 T 3306 T
-	5N-0015 (17)(19)(20)(26)	-	444	240-480	200-400	3304 T
5N-5047	5N-0015 (19)(20)(26)	5CA	444	240-480	200-400	3304 T 3306 T
-	5N-0016 (17)(19)(20)(26)	-	444	300-600	240-480	3304 T

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
5N-5048	5N-0016 (19)(20)(26)	5CA	444	300-600	240-480	3304 T 3306 T
-	5N-0017 (19)(20)(26)	-	445	208-416	-	3306T
5N-5049	5N-0017 (19)(20)(26)	5DA	445	208-416	-	3306T
-	5N-0018 (19)(20)(26)	-	445	240-480	200-400	3306T
5N-5050	5N-0018 (19)(20)(26)	5DA	445	240-480	200-400	3306T
-	5N-0019 (19)(20)(26)	-	445	300-600	240-480	3306T
5N-5051	5N-0019 (19)(20)(26)	5DA	445	300-600	240-480	3306T
-	5N-0020 (19)(20)(26)	-	447	208-416	-	D334
-	5N-0021 (19)(20)(26)	-	447	240-480	200-400	D334
-	5N-0022 (19)(20)(26)	-	447	300-600	-	D334
-	5N-0023 (19)(20)(26)	-	449	208-416	-	D343
-	5N-0024 (19)(20)(26)	-	449	240-480	-	D343
-	5N-0025 (19)(20)(26)	-	449	300-600	-	D343
-	5N-0026 (16)(19)(20)(26)	-	447	240-480	200-400	D334
-	5N-0027(19)(20)(26)	-	446	208-416	-	3306 TA, T
5N-5056	5N-7200(27)	5VA 1-UP	687	240-480	200-400	G399, 3512
5N-5057	5N-7201(27)	5VA 1-UP	687	600	500	G399, 3512
5N-5059	5N-0027(19)(20)(26)	5EA 1	446	208-416	-	3306 TA, T
-	5N-0028(19)(20)(26)	-	446	240-280	200-400	3306 TA, T
5N-5060	5N-0028(19)(20)(26)	5EA 1	446	240-280	200-400	3306 TA, T
-	5N-0029(19)(20)(26)	-	446	300-600	240-480	3306 TA, T
5N-5061	5N-0029(19)(20)(26)	5EA 1	446	300-600	240-480	3306 TA, T
-	5N-0030(19)(20)(26)	-	447	208-416	-	3406 DI, T
-	5N-0031(19)(20)(26)	-	447	240-280	200-400	3406 DI, T
-	5N-0032(19)(20)(26)	-	447	300-600	240-480	3406 DI, T
-	5N-0090(19)(20)(26)	-	449	240-480	200-400	3408 PC, TA
5N-5062	5N-8896 (10)(19)(20)(26)	5GA 1	447	208-416	-	3406 DI, T
5N-5063	5N-8897(19)(20)(26)	5GA 1	447	240-480	200-400	3406 DI, T

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
5N-5064	5N-8898 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5GA 1	447	300-600	240-480	3406 DI, T
5N-5065	5N-8904 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5HA 1	448	208-416	-	3406 DI, TA/PC, TA
5N-5066	5N-8905 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5HA 1	448	240-480	200-400	3406 DI, TA/PC, TA
5N-5067	5N-8906 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5HA 1	448	300-600	240-480	3406 DI, TA/PC, TA
-	5N-0060 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	584	240-480	200-400	3412 DI, T
5N-5068	5N-7202 ⁽²⁷⁾	5VA 1-UP	687	240-480	200-400	G399, 3512
5N-5069	5N-7203 ⁽²⁷⁾	5VA 1-UP	687	600	500	G399, 3512
5N-5070	5N-5005 ⁽¹⁴⁾⁽²⁶⁾	-	804	480	400	3512
5N-5071	5N-5006 ⁽¹⁴⁾⁽²⁶⁾	5XA 1-UP	804	600	500	3512
5N-5072	5N-5007 ⁽¹⁴⁾⁽²⁶⁾	5XA 1-UP	804	480	400	3512
5N-5073	5N-5008 ⁽¹⁴⁾⁽²⁶⁾	5XA 1-UP	804	600	500	3512
5N-5075	5N-0060 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5LA 1	584	240-480	200-400	3412 DI, T
-	5N-0061 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	588	240-480	200-400	3412 PC, TA
5N-5076	5N-0061 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5NA 1	588	240-480	200-400	3412 DI, TA/PC, TA
-	5N-0062 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	589	240-480	200-400	D348
-	5N-0062 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5PA 1	589	240-480	200-400	D348 TA
5N-5078	5N-0063 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	446	240-480	200-400	3306 TA
-	5N-0063 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5EA 1	446	240-480	200-400	3306 TA
5N-5079	5N-0064 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	448	240-480	200-400	3406 PC, TA
-	5N-0065 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	449	240-480	200-400	3406 PC, TA
-	5N-0066 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	448	208-416	-	3406 PC, TA
-	5N-0067 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	448	300-600	240-480	3406 PC, TA
-	5N-0068 ⁽¹⁸⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	448	240-480	200-400	3406 PC, TA
-	5N-0069 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	449	208-416	-	3406 PC, TA
-	5N-0070 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	449	300-600	240-480	3406 PC, TA
-	5N-0071 ⁽¹⁸⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	449	240-480	200-400	3406 PC, TA
-	5N-0072 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	447	300-600	240-480	3306 TA

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
-	5N-0074 (10)(19)(20)(26)	-	447	240-480	200-400	3306 TA
-	5N-0075 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	447	240-480	200-400	3306 TA
-	5N-0076 (10)(19)(20)(26)	-	365	240-480	200-400	3304 NA
5N-5090	5N-0076 (10)(19)(20)(26)	5AA 1	365	240-480	200-400	3304 NA
-	5N-0077 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	365	208-416	-	3304 NA
5N-5091	5N-0077 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5AA1	365	208-416	-	3304 NA
5N-7072	5N-8891 (10)(19)(20)(26)	5FA 1	447	300-600	240-480	3306 TA, T
5N-7073	5N-8892 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5FA 1	447	208-416	-	3306 TA, T
5N-7074	5N-8893 (10)(19)(20)(26)	5FA 1	447	240-480	200-400	3306, TA, T
5N-7075	5N-8894 (10)(19)(20)(26)	5FA 1	447	240-480	200-400	3306, TA, T
5N-7078	5N-0078 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5AA 1	365	240-480	200-400	3304 NA
-	5N-0079 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	365	300-600	240-480	3304 NA
5N-7079	5N-0079 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5AA 1	365	300-600	240-480	3304 NA
-	5N-0080 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	366	208-416	-	3304 T
5N-7080	5N-0080 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5BA1	366	208-416	-	3304 T
-	5N-0081 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	366	240-480	200-400	3304 T
5N-7081	5N-0081 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5BA1	366	240-480	200-400	3304 T
-	5N-0082 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	366	300-600	240-480	3304 T
5N-7082	5N-0082 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5BA1	366	300-600	240-480	3304 T
-	5N-0083 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	448	208-416	-	3408 DI, T
-	5N-0084 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	448	240-480	200-400	3408 DI, T
-	5N-0085 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	448	300-600	240-480	3408 DI, T
-	5N-0086 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	448	240-480	200-400	3408 DI, T
-	5N-0087 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	449	208-416	-	3408 PC, TA
-	5N-0088 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	449	240-480	200-400	3408 PC, TA
-	5N-0089 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	449	300-600	240-480	3408 PC, TA
-	5N-0033 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	448	208-416	-	3408 PC, TA
-	5N-0034 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	448	240-480	200-400	3408 PC, TA
-	5N-0035 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	448	300-600	240-480	3406 PC, TA
-	5N-0036 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	449A	240-416	-	3408 DI, T
-	5N-0037 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	449A	240-480	200-400	3408 DI, T
-	5N-0038 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	449A	300-600	240-480	3408 DI, T
-	5N-0039 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	449	208-416	-	3408 PC, TA
-	5N-0040 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	449	240-480	200-400	3408 PC, TA
-	5N-0041 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	449	300-600	240-480	3408 PC, TA

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
-	5N-0042 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	449	240-480	200-400	3408 PC, TA
-	5N-0043 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	584	240-480	200-400	3412 DI, T
-	5N-0043 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5LA1	584	240-480	200-400	3412 DI, T
-	5N-0044 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	584	300-600	240-480	3412 DI, T
-	5N-0044 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5LA1	584	300-600	240-480	3412 DI, T
-	5N-0045 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	586	240-480	200-400	D346
-	5N-0046 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	588	240-480	200-400	3412 PC, TA
-	5N-0046 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5NA1	588	240-480	200-400	3412 DI, TA/PC, TA
-	5N-0047 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	588	300-600	240-480	3412 PC, TA
-	5N-0047 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5NA1	588	300-600	240-480	3412 DI, TA/PC, TA
-	5N-0048 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	584	240-480	200-400	D343
-	5N-0049 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	584	300-600	240-480	D343
-	5N-0050 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	365	208-416	-	3304 NA
-	5N-0051 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	365	240-480	200-400	3304 NA
-	5N-0052 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	365	300-600	240-480	3304 NA
-	5N-0053 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	366	208-416	-	Derated 3304 T
-	5N-0054 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	366	204-480	200-400	Derated 3304 T
-	5N-0055 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	366	300-600	240-480	Derated 3304 T
-	5N-0056 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	586	240-480	200-400	D346
-	5N-0057 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	586	300-600	240-480	D346
-	5N-0058 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	589	240-480	200-400	D348
-	5N-0058 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5PA1	589	240-480	200-400	D348 TA
-	5N-0059 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	-	589	300-600	240-480	D348
-	5N-0059 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5PA1	589	300-600	240-480	D348 TA
5N-7083	5N-8899 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5JA 1	448	208-416	-	3408 DI, T
5N-7084	5N-8900 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5JA 1	448	240-480	200-400	3408 DI, T
5N-7086	5N-8902 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5JA 1	448	240-480	200-400	3408 DI, T
5N-7087	5N-8911 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5KA1	449	208-416	-	3406 DI, TA/PC, TA
5N-7088	5N-4999 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5KA 1	449	240-480	200-400	3408 DI, TA/PC, TA
5N-7089	5N-5000 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5KA 1	499	300-600	240-480	3408 DI, TA/PC, TA
5N-7090	5N-5001 ⁽¹⁰⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	5KA 1	449	240-480	200-400	3408 DI, TA/PC, TA

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
5N-8250	5N-7220 ⁽¹⁴⁾⁽²⁶⁾	6AA 1-UP	806	480	-	3512, 3516
5N-8251	5N-7221 ⁽¹⁴⁾⁽²⁶⁾	6AA 1-UP	806	600	-	3512, 3516
5N-8252	5N-7222 ⁽¹⁴⁾⁽²⁶⁾	6AA 1-UP	806	480	-	3512, 3516
5N-8253	5N-7223 ⁽¹⁴⁾⁽²⁶⁾	6AA 1-UP	806	600	-	3512, 3516
5N-8436	5N-7216 ⁽¹⁵⁾⁽²⁷⁾	5MA 1-UP	587	240-480	-	3412 LS
5N-8437	5N-7217 ⁽¹⁵⁾⁽²⁷⁾	5MA 1-UP	587	300-600	-	3412 LS
5N-8438	5N-7218 ⁽¹⁵⁾⁽²⁷⁾	5MA 1-UP	587	240-480	-	3412 LS
5N-8439	5N-7219 ⁽¹⁵⁾⁽²⁷⁾	5MA 1-UP	587	300-600	-	3412 LS
5N-8440	5N-7204 ⁽²⁷⁾	5RA 1-UP	683	240-480	200-400	G379, G398, G399, D379
5N-8441	5N-7205 ⁽²⁷⁾	5RA 1-UP	683	300-600	240-480	G379, G398, G399, D379
5N-8442	5N-7206 ⁽²⁷⁾	5RA 1-UP	683	240-480	200-400	G379, G398, G399, D379
5N-8443	5N-7207 ⁽²⁷⁾	5RA 1-UP	683	300-600	240-480	G379, G398, G399, D379
5N-8444	5N-7208 ⁽²⁷⁾	5TA 1-UP	686	240-480	200-400	G398, D398, G399
5N-8445	5N-7209 ⁽²⁷⁾	5TA 1-UP	686	300-600	240-480	G398, D398, G399
5N-8446	5N-7210 ⁽²⁷⁾	5TA 1-UP	686	240-480	200-400	G398, D398, G399
5N-8447	5N-7211 ⁽²⁷⁾	5TA 1-UP	686	300-600	240-480	G398, D398, G399
5N-8448	5N-7212 ⁽¹⁴⁾⁽²⁷⁾	5YA 1-UP	806	480	400	D399
5N-8449	5N-7213 ⁽¹⁴⁾⁽²⁷⁾	5YA 1-UP	806	600	480	D399
5N-8450	5N-7214 ⁽¹⁴⁾⁽²⁷⁾	5YA 1-UP	806	480	400	D399
5N-8451	5N-7215 ⁽¹⁴⁾⁽²⁷⁾	5YA 1-UP	806	600	480	D399
5N-8661	5N-8908 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6BA1	449S	208-416	-	3406 DI, TA
5N-8662	5N-8909 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6BA1	449S	240-480	200-400	3406 DI, TA
5N-8663	5N-8910 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6BA1	449S	300-600	240-480	3406 DI, TA
5N-8664	5N-7064 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6CA 1	582	240-480 208-416	200-400	3408 DI, T
5N-8665	5N-7065 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6CA 1	582	300-600	240-480	3408 DI, T

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
5N-8666	5N-7066 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6DA 1	584	240-480 208-416	200-400	3408 DI, TA
5N-8667	5N-7067 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6DA 1	584	300-600	240-480	3408 DI, TA
5N-8668	5N-7068 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6EA 1	586	240-480 208-416	200-400	3412 DI, T
5N-8669	5N-7069 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6EA 1	586	300-600	240-480	3412 DI, T
5N-8670	5N-5026 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6FA 1	589	240-480 208-416	200-400	3412 DI, TA
5N-8670	5N-7070 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6FA 1	589	240-480 208-416	200-400	3412 DI, T
5N-8671	5N-7071 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6FA 1	589	300-600	240-480	3412 DI, TA
5N-9141	5N-9081 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6NA1	444	240-480	200-400	3208 NA/T
5N-9142	5N-9082 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6GA1	367	208-416	-	3208 NA
5N-9143	5N-9083 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6JA1	445	208-416	-	3208 T
5N-9144	5N-9084 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6HA1	444	208-416	-	3208 NA/T
5N-9145	5N-9085 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6GA1	367	300-600	240-480	3208 NT
5N-9146	5N-9086 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6JA1	445	300-600	240-480	3208 T
5N-9147	5N-9087 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6HA1	444	300-600	240-480	3208 NA/T
5N-9148	5N-9088 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6GA1	367	240-480	200-400	3208 NA
5N-9149	5N-9089 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6JA1	445	240-480	200-400	3208 T
5N-9320	5N-7228	5SA 1-UP	684	240-480	200-400	G398, G399, 3508
5N-9321	5N-7229	5SA 1-UP	684	300-600	240-480	G398, G399, 3508
5N-9322	5N-7230	5SA 1-UP	684	240-480	200-400	G398, G399, 3508
5N-9323	5N-7231	5SA 1-UP	684	300-600	240-480	G398, G399, 3508
5N-9324	5N-7224 ⁽²⁶⁾	5UA 1-UP	681	240-480	200-400	3508
5N-9325	5N-7225 ⁽²⁶⁾	5UA 1-UP	681	600	500	3508
5N-9326	5N-7226 ⁽²⁶⁾	5UA 1-UP	681	240-480	200-400	3508
5N-9327	5N-7227 ⁽²⁶⁾	5UA 1-UP	681	600	500	3508
5N-9328	5N-7232 ⁽¹⁴⁾⁽²⁷⁾	5ZA 1-UP	807	480	-	3516
5N-9329	5N-7233 ⁽¹⁴⁾⁽²⁷⁾	5ZA 1-UP	807	600	-	3516
5N-9330	5N-7234 ⁽¹⁴⁾⁽²⁷⁾	5ZA 1-UP	807	480	-	3516

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
5N-9331	5N-7235 ⁽¹⁴⁾⁽²⁷⁾	5ZA 1-UP	807	600	-	3516
5N-9516	5N-7309 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6FA 1	589	300-600	-	3412 DI, TA
5N-9516	5N-9432 ⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6FA1	589	300-600	240-480	3412
5N-9548	5N-7239	6KA 1-UP	684	600	-	3412 DI TA
5N-9549	5N-7238 ⁽¹⁴⁾⁽²⁷⁾	6LA 1-UP	809	600	-	D399, 3512, 3516
5N-9550	5N-7237	5VA 1-UP	687	600	-	D379, 3508
6I-0052	6I-0053	9EF	443	600	-	3208
6I-0054	6I-0055	3KJ	444	208	-	3208
6I-0057	6I-0056	3KJ	444	240-480	200-400	3208
6I-0058	6I-0059	3KJ	444	300-600	-	3208
6I-0060	6I-0061	6EG	446	600	-	3306/3306B/ G3406/3406
6I-0062	6I-0063	9FF	450	600	-	G3406/3406/ 3406B/3406C
6I-0064	6I-0065	9FF	450	208	-	G3406/3406/ 3406B/3406C
6I-2677	6I-2676 ⁽¹⁾⁽²⁾⁽⁴⁾⁽¹²⁾⁽¹³⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6PA	689	4160	3300	3512 TA/3512 SITA
6I-3089	6I-3088 ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6SA	807	480	400	3512 TA/3516 TA
6I-3091	6I-3090 ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	2ED	808	480	400	3516 TA
6I-3093	6I-3092 ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6AA	806	480	400	3512 TA/3516 TA
6I-3095	6I-3094 ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6NA	685	480	400	3508 TA/3512 TA/3508 SITA
6I-4828	6I-4827 ⁽²⁾⁽⁴⁾⁽⁶⁾⁽¹²⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾⁽²⁸⁾	8FD	809	480	400	3516 TA
6I-4830	6I-4829 ⁽¹⁾⁽²⁾⁽⁸⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾⁽²⁹⁾⁽³¹⁾	6SA	807	480	400	3512 TA/3516 TA
6I-4834	6I-4833 ⁽¹⁾⁽²⁾⁽⁸⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾⁽²⁹⁾⁽³¹⁾	3EF	805	480	400	3512 TA/3516 TA
6I-4836	6I-4835 ⁽²⁾⁽⁴⁾⁽⁶⁾⁽¹²⁾⁽¹³⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	8FD	809	4160	3300	3516 TA
6I-4840	6I-4839 ⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾	6PA	689	480	400	3512 TA
6I-4842	6I-4841 ⁽¹⁾⁽²⁾⁽⁸⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁶⁾⁽²⁹⁾⁽³¹⁾	6PA	689	480	400	3512 TA
6I-4844	6I-4843 ⁽¹⁾⁽²⁾⁽⁴⁾⁽¹²⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁷⁾⁽²⁸⁾	6LA	809	480	400	3512 TA/3516 TA
6I-4846	6I-4845 ⁽¹⁾⁽²⁾⁽⁴⁾⁽¹²⁾⁽¹³⁾⁽¹⁹⁾⁽²⁰⁾⁽²⁷⁾	6LA	809	4160	3300	3512 TA/3516 TA

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
6I - 4848	6I - 4847 (1)(2)(4)(12)(19)(20)(27)(28)	5YA	806	480	400	3512 TA/3516 TA
6I - 4850	6I - 4849 (1)(2)(4)(12)(13)(19)(20)(27)	5YA	806	4160	3300	3512 TA/3516 TA
6I - 4852	6I - 4851 (1)(2)(4)(12)(19)(20)(27)(28)	5VA	687	480	400	3512 TA
6I - 4854	6I - 4853 (1)(2)(4)(12)(19)(20)(27)(28)	5TA	686	480	400	3508 TA
7C - 1615	7C - 1601(19)(20)	1GD	585	240-480	200-400	3408 TA
7C - 1616	7C - 1602 (2)(4)(10)(19)(20)	1GD	585	240-480	200-400	3408 TA
7C - 1617	7C - 1603 (19)(20)(21)(26)	6MA	589	240-480	200-400	3508 TA
7C - 1618	7C - 1604 (2)(4)(10)(19)(20)(21)(26)	6MA	589	240-480	200-400	3508 TA
7C - 1619	7C - 1605 (19)(20)(21)(26)	5UA	681	240-480	200-400	3508 TA
7C - 1620	7C - 1606 (2)(4)(10)(19)(20)(21)(26)	5UA	681	240-480	200-400	3508 TA
7C - 1621	7C - 1607 (19)(20)(21)(26)	6NA	685	240-480	200-400	3508 TA/3512 TA
7C - 1622	7C - 1608 (2)(4)(10)(19)(20)(21)(26)	6NA	685	240-480	200-400	3508 TA/3512 TA
7C - 1623	7C - 1609 (19)(20)(21)(26)	6PA	689	480	400	3512 TA
7C - 1624	7C - 1610 (2)(4)(10)(19)(20)(21)(26)	6PA	689	480	400	3512 TA
7C - 1625	7C - 1611 (19)(20)(21)(26)	6AA	806	480	400	3512 TA/3516 TA
7C - 1626	7C - 1612 (2)(4)(10)(19)(20)(21)(26)	6AA	806	480	400	3512 TA/3516 TA
7C - 1627	7C - 1613 (19)(20)(21)(26)	6SA	807	480	400	3512 TA/3516 TA
7C - 1628	7C - 1614 (2)(4)(10)(19)(20)(21)(26)	6SA	807	480	400	3512 TA/3516 TA
7C - 2270	7C - 2269 (19)(20)(21)(26)	2WD	582	240-480	200-400	3406 TA
7C - 2311	7C - 2312 (19)(20)(21)(26)	2WD	582	300-600	240-480	3406 TA
7C - 2624	7C - 2517 (19)(20)(21)(26)	6NA	685	4160	3300	3508 TA/3516 TA
7C - 2625	7C - 2618 (4)(19)(20)(21)(26)	2ED	808	4160	3300	3516 TA
7C - 2626	7C - 2619 (19)(20)(21)(26)	5TD	687	4160	3300	3512
7C - 2627	7C - 2620 (19)(20)(21)(26)	8FD	809	4160	3300	3516

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
7C - 2628	7C - 2621 (19)(20)(21)(26)	6SA	807	4160	3300	3512 TA/3516 TA
7C - 2629	7C - 2622 (19)(20)(22)(24)	4MD	809	600	-	3516
7C - 2630	7C - 2623 (4)(5)(6)(19)(20)(23)(27)	3RD	815	600	-	3516
7C - 3062	7W - 8671 (19)(20)	5MA	587	240-480	200-400	3412 TA
7C - 3063	7W - 8672 (2)(4)(10)(19)(20)	5MA	587	240-480	200-400	2412 TA
7C - 3064	7W - 8673 (1)(7)(8)(19)(20)(26)(28)(30)	5RA	683	240-480	200-400	G398/G399/ D379/3508 SI/3508 TA
7C - 3065	7W - 8674 (2)(4)(10)(19)(20)	5RA	683	240-480	200-400	G398/G399/ D379/3508 SI/3508 TA
7C - 3066	8W - 8675 (1)(7)(8)(19)(20)(26)(28)(30)	5SA	684	240-480	200-400	G398/3508 TA
7C - 3067	7W - 8676 (2)(4)(10)(19)(20)	5SA	684	240-480	200-400	G398/ 3508 TA
7C - 3068	7W - 8677 (1)(7)(8)(19)(20)(26)(28)(30)	5TA	686	240-480	200-400	G399/ D398/ 3512 SI/3516 SI/3508 TA
7C - 3069	7W - 8678 (2)(4)(10)(19)(20)	5TA	686	240-480	200-400	G399/ D398/ 3512 SI/3516 SI/3508 TA
7C - 3070	7W - 8681 (1)(7)(8)(19)(20)(26)(28)(30)	5VA	687	240-480	200-400	G399/3512 TA/3512 SI/3516 SI
7C - 3071	7W - 8682 (2)(4)(10)(19)(20)	5VA	687	240-480	200-400	G399/3512 TA/3512 SI/3516 SI
7C - 3072	7W - 8685 (1)(7)(8)(19)(20)(26)(28)(30)	5YA	806	480	400	D399/3512 TA/3516 TA/3516 SI
7C - 3073	7W - 8686 (2)(4)(10)(19)(20)	5YA	806	480	400	G399/3512 TA/3512 SI/3516 SI
7C - 3074	7W - 8687 (1)(7)(8)(19)(20)(26)(28)(30)	5ZA	807	480	400	D399/3516 TA
7C - 3075	7W - 8688 (2)(4)(10)(19)(20)	5ZA	807	480	400	D399/3516 TA
7C - 3076	7W - 8693 (2)(4)(10)(19)(20)	6LA	587	480	400	D399/3516 TA
7C - 3078	7W - 8703 (1)(7)(8)(19)(20)(26)(28)(30)	6WA	587	240-480	200-400	G398/ G379/ 3508 SI/3512 SI
7C - 3079	7W - 8704 (2)(4)(10)(19)(20)	6WA	587	240-480	200-400	G398/ G379/ 3508 SI/3512 SI
7C - 3228	7W - 8692 (1)(4)(5)(19)(20)(23)(26)	6KA	684	600	-	3412 TA

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
7C-3229	7W-4367 (19)(20)	5DD	583	240-480	200-400	3406 TA
7C-3230	7W-4369 (2)(4)(10)(19)(20)	5DD	583	240-480	200-400	3406 TA
7C-3231	7W-8824 (4)(19)(20)	2ED	808	480	400	3516
7C-3232	7W-8825 (2)(4)(10)(19)(20)	2ED	808	480	400	3516
7C-3266	7W-7963	6AA	806	4160	3300	3512 TA/3516 TA/3516 SITA
7C-3486	7C-3484 (2)(10)(19)(20)(21)(26)	2WD	582	240-480	200-400	3406 TA
7C-3543	7C-3537 (19)(20)(21)(26)	5TD	687	240-480	200-400	3512
7C-3544	7C-3538 (2)(7)(10)(19)(20)(21)(26)	5TD	687	240-480	200-400	3512
7C-3545	7C-3539 (19)(20)(21)(26)	1WF	683	240-480	200-400	3508/3512
7C-3546	7C-3540 (2)(7)(10)(19)(20)(21)(26)	1WF	683	240-480	200-400	3508/3512
7C-3547	7C-3541 (19)(20)(21)(26)	3EF	805	480	400	3512/3516
7C-3548	7C-3542 (2)(7)(10)(19)(20)(21)(26)	3EF	805	480	400	3512/3516
7C-4119	7C-4118 (19)(20)(21)(26)	6NA	685	600	500	3508/3512
7C-4122	7C-4121 (19)(20)(21)(26)	6SA	807	600	500	3512/3516
7C-4914	7C-4913 (4)(19)(20)	8ZD	804	4160	3300	3508/3512/3516 SI
7C-5095	7C-5094 (1)(2)(4)(10)(12)(19)(20)(26)	6AA	806	600	-	3512 TA/3516 TA
7C-7150	7C-7149 (19)(20)(21)(26)	5LF	365S	240-480	200-400	3114 TA/3116 TA
7C-7152	7W-1877(19)(20)	5JF	367S	240-480	200-400	3114 TA, 3116 TA
7C-9127	7C-9126 (19)(20)(21)(24)(26)	3WF	807	-	500	3512
7E-5424	7E-5425 (19)(20)(21)(26)	6HF	447S	240-480	200-400	3306 ATAAC
7E-9696	7E-9695 (1)(2)(8)(10)(11)(19)(20)(26)	4GN	827	480	400	3516/3516B
7W-3036	7W-3037 (2)(10)(19)(20)	6RA576	364	240-480	200-400	3304 NA
7W-3119	7W-3115 (19)(20)	6SA537	-	480	400	-
7W-3121	7W-3117 (2)(4)(10)(19)(20)	6SA537	807	480	400	3512, 3516

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
7W-4370	7W-4371 (19)(20)	1GD	585	240-480	200-400	-
7W-4372	7W-4373 (4)(19)(20)	1GD	585	240-480	200-400	-
7W-7520	7W-7521 (19)(20)	5WA	363	240-480	200-400	3208 NA
7W-8713	7W-8679 (19)(20)	5UA	681	240-480	200-400	3508
7W-8714	7W-8680 (4)(19)(20)	5UA	681	240-480	200-400	3508
7W-8724	7W-8690 (19)(20)	6AA	806	480	400	3512/3516
7W-8725	7W-8691 (4)(19)(20)	6AA	806	480	400	3512/3516
7W-8729	7W-8695 (19)(20)	6MA	589	240-480	200-400	3508
7W-8730	7W-8696 (4)(19)(20)	6MA	589	240-480	200-400	3508
7W-8731	7W-8697(19)(20)	6NA	685	240-480	200-400	3508/3512
7W-8732	7W-8698 (4)(19)(20)	6NA	685	240-480	200-400	3508/3512
7W-8733	7W-8699 (19)(20)	6PA	689	480	400	3508/3512/3516
7W-8734	7W-8700(4)(19)(20)	6PA	689	480	400	3508/3512/3516
7W-8735	7W-8701 (19)(20)	6SA	807	480	400	3512/3516
7W-8736	7W-8702 (4)(19)(20)	6SA	807	480	400	3512/3516
7W-8745	7W-8743 (19)(20)	6HA	444	240-480	200-400	3208 T
7W-8746	7W-8744 (19)(20)	5FA	447	240-480	200-400	3306 TA
9Y-0158	9Y-0157 (1)(2)(8)(10)(11)(19)(20)(26)	1BN	690	480	400	3508
9Y-0160	9Y-0159 (1)(2)(8)(10)(11)(19)(20)(26)	3FN	691	480	400	3508
9Y-0162	9Y-0161 (1)(2)(8)(10)(11)(19)(20)(26)	2DN	692	480	400	3508
9Y-0164	9Y-0163 (1)(2)(8)(10)(11)(19)(20)(26)	2DM	693	480	400	3512/3512B
9Y-0166	9Y-0165 (1)(2)(8)(10)(11)(19)(20)(26)	2FN	695	480	400	3512/3512B
9Y-0170	9Y-0169 (1)(2)(8)(10)(11)(19)(20)(26)	2GN	696	480	400	3512/3512B
9Y-0276	9Y-0167 (2)(4)(6)(12)(13)(19)(20)(26)	9CN	827	2400 Delta, 4160	3300	3516/3516B
9Y-0395	9Y-0394 (1)(2)(8)(11)(19)(20)(26)	3FN	691	380	-	3508

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
9Y - 0397	9Y - 0396 (1)(2)(8)(11)(19)(20)(26)	2DN	692	380	-	3508/3512
9Y - 0399	9Y - 0398 (1)(2)(8)(11)(19)(20)(26)	2FN	695	380	-	3512/3512B
9Y - 0409	9Y - 0353 (19)(20)	6DF	362S	240-480	200-400	3114 T, TA
9Y - 0412	7C - 7537 (19)(20)(21)(26)	6FF	362S	240-480	200-400	3114 T, TA
9Y - 0413	9Y - 0356 (19)(20)	5NF	365S	240-480	200-400	3114 TA/ 3116 T
9Y - 0414	7C - 7151 (19)(20)(21)(26)	3FF	367S	240-480	200-400	3114 TA/ 3116 T, TA
9Y - 0421	9Y - 0363 (19)(20)	1DJ	445S	240-480	200-400	3306 TA
9Y - 0422	9Y - 0364 (19)(20)	5WF	446S	240-480	200-400	3006 TA, ATAAC
9Y - 0423	9Y - 0365 (19)(20)	6HF	447S	240-480	200-400	3406 TA
9Y - 0425	9Y - 0367	8LF	449	240-480	200-400	3406B/3406C
9Y - 0426	9Y - 0368	6CG	444	240-480	200-400	3306/3306B
9Y - 0427	7E - 0097	6DG	445	240-480	200-400	3306/3306B
9Y - 0428	7E - 0098	6EG	446	240-480	200-400	3306/3306B/ G3406/3406
9Y - 0430	7C - 8892 (19)(20)(21)(26)	6GF	443S	240-480	200-400	3208 T
9Y - 0431	9Y - 0373 (19)(20)	7CF	448S	240-480	200-400	3406 TA
9Y - 0432	9Y - 0374 (19)(20)	5CG	449S	240-480	200-400	3406 TA
9Y - 0433	9Y - 0375 (19)(20)	1JJ	450S	240-480	200-400	3406 TA
9Y - 0434	7C - 8893 (19)(20)(21)(26)	7BF	444S	240-480	200-400	3208 ATAAC
9Y - 0435	9Y - 0377	8KF	448	240-480	200-400	3406B/3406C
9Y - 0436	9Y - 0378	8LF	449	240-480	200-400	3406B/3406C
9Y - 0437	9Y - 0379	9FF	450	240-480	200-400	G3406/3406/ 3406B/3406C
9Y - 0440	9Y - 0382	8HG	592	240-480	200-400	3412/3412C
9Y - 0441	9Y - 0383	9FG	593	240-480	200-400	3412/3412C
9Y - 0442	9Y - 0384	4SJ	594	240-480	200-400	3412/3412C
9Y - 0443	9Y - 0385	5NJ	595	480	400	3412/3412C
9Y - 0444	9Y - 0386	6EJ	596	480	400	3412/3412C
9Y - 0447	9Y - 0389	8HG	592	240-480	200-400	3412/3512B/ 3412C

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
9Y - 0448	9Y - 0390	9FG	593	240-480	200-400	3412/3412C
9Y - 0449	9Y - 0391	4SJ	594	240-480	200-400	3412/3412C
9Y - 0450	9Y - 0392	5NJ	595	480	400	3412/3412C
9Y - 0451	9Y - 0393	6EJ	596	480	400	3412/3412C
9Y - 0453	9Y - 0452 (1)(2)(4)(12)(13)(19)(20)(26)	2DN	692	2400 Delta, 4160	3300	3508/3512
9Y - 0455	9Y - 0454 (1)(2)(4)(12)(13)(19)(20)(26)	2FN	695	2400 Delta, 4160	3300	3512/3512B
9Y - 0457	9Y - 0456 (1)(2)(4)(12)(13)(19)(20)(26)	2HN	822	2400 Delta, 4160	3300	3512/3512B/ 3516
9Y - 0458	9Y - 0400	7AJ	597	480	400	3412/3412C
9Y - 0460	9Y - 0459 (1)(2)(4)(12)(13)(19)(20)(26)	5SN	824	2400 Delta, 4160	3300	3512/3512B/ 3516
9Y - 0462	9Y - 0461 (1)(2)(4)(12)(13)(19)(20)(26)	8NN	825	2400 Delta, 4160	3300	3512B/3516/ 3516B
9Y - 0464	9Y - 0463 (2)(4)(6)(12)(13)(19)(20)(26)	2SN	826	2400 Delta, 4160	3300	3516/3516B
9Y - 0515	9Y - 0513 (1)(7)(8)(9)(19)(20)(26)	-	690	480	400	3508
9Y - 0517	9Y - 0516 (1)(7)(8)(9)(19)(20)(26)	3EN	691	480	400	3508
9Y - 0520	9Y - 0519 (1)(7)(8)(9)(19)(20)(26)	2GM	692	480	400	3508/3512/ 3512B
9Y - 0522	9Y - 0521 (1)(7)(8)(9)(19)(20)(26)	3BM	693	480	400	3512/3512B
9Y - 0524	9Y - 0523 (1)(7)(8)(9)(19)(20)(26)	4DM	695	480	400	3512/3512B
9Y - 0526	9Y - 0525 (1)(7)(8)(9)(19)(20)(26)	5DM	696	480	400	3512/3512B
9Y - 0528	9Y - 0527 (1)(7)(8)(9)(19)(20)(26)	6GM	822	480	400	3512/3512B/ 3516
9Y - 0530	9Y - 0529 (1)(7)(8)(9)(19)(20)(26)	7GM	824	480	400	3512/3512B/ 3516
9Y - 0532	9Y - 0531 (1)(7)(8)(9)(19)(20)(26)	8DM	825	480	400	3512B/3516/ 3516B
9Y - 0534	9Y - 0533 (6)(7)(8)(9)(19)(20)(26)	1HN	826	480	400	3516/3516B
9Y - 1411	9Y - 1408 (19)(20)(24)	4MD	809	600	-	3512 TA/ 3516 TA
9Y - 1413	9Y - 1412 (19)(20)	-	369S	240-480	200-400	3116
9Y - 1424	9Y - 1423 (1)(2)(4)(12)(13)(19)(20)(26)	3FN	691	2400 Delta, 4160	3300	3508
9Y - 1443	9Y - 1425	9FF	450	240-480	200-400	G3406/3406/ 3406B/3406C
9Y - 1445	9Y - 1427	8HG	592	240-480	200-400	3412/3412C
9Y - 1446	9Y - 1428	9FG	593	240-480	200-400	3412/3412C

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
9Y - 1447	9Y - 1429	4SJ	594	240-480	200-400	3412/3412C
9Y - 1448	9Y - 1430	5NJ	595	480	400	3412/3412C
9Y - 1449	9Y - 1431	6EJ	596	480	400	3412/3412C
9Y - 2936	9Y - 2934 (1)(4)(7)(12)(19)(20)(26)(28)	8FD	809	480	400	3516
9Y - 2937	9Y - 2935 (1)(2)(4)(10)(19)(12)(20)(20)(26)	8FD	809	480	400	3516
9Y - 3874	9Y - 3872 (1)(4)(7)(12)(19)(20)(26)(28)	2ED	808	480	400	3516 TA
9Y - 3875	9Y - 3873 (1)(2)(4)(10)(19)(12)(20)(20)(26)	2ED	808	480	400	3516
9Y - 3877	9Y - 3876 (2)(4)(10)(19)(20)	6FA	589	240-480	200-400	3412 T, TA
9Y - 7181	9Y - 7180 (1)(2)(4)(10)(19)(12)(20)(20)(26)	5ZA	807	480	400	3516 TA/ 3516 SI
9Y - 9376	9Y - 9374 (19)(20)	5NF	365S	600	480	3114 TA/ 3116 T
9Y - 9377	9Y - 9375 (19)(20)	3FF	367S	600	480	3114 TA/ 3116 T, TA
9Y - 9423	9Y - 9416 (19)(20)	6FF	362S	600	480	3114 T, TA
9Y - 9424	9Y - 9417 (19)(20)	6DF	362S	600	480	3114 T, TA
9Y - 9426	9Y - 9418 (19)(20)	5LF	365S	600	480	3114 TA/ 3116 T
9Y - 9427	9Y - 9419 (19)(20)	5JF	367S	600	480	3114 TA/ 3116 T, TA
9Y - 9429	9Y - 9421 (1)(7)(8)(19)(20)(26)(28)(30)	6NA	685	600	500	3508 TA
9Y - 9430	9Y - 9422 (1)(7)(8)(19)(20)(26)(28)(31)	6AA	806	600	500	3512 TA
102 - 2414	102 - 2415	6PK	448	600	-	3306/3306B
102 - 2416	102 - 2417	5CK	449	600	-	3406B/3406C
103 - 1253	103 - 1254	6FA	589	240-480	200-400	3412/3412C/ G3412/G3412C
106 - 3580	106 - 3579	7AJ	597	480	400	3412/3412C
106 - 3581	106 - 3578	7AJ	597	480	400	3412/3412C
107 - 2968	107 - 2967	8GK	443	240-480	200-400	3304B
107 - 3132	107 - 3133	8GK	443	600	-	3304B
108 - 3050	106 - 3652 (2)(4)(6)(12)(13)(19)(20)(26)	2ED	808	4160	3300	3516 TA
108 - 3051	108 - 3052 (2)(3)(4)(5)(6)(19)(20)(26)	2ED	808	480	400	3516 TA
108 - 9689	109 - 1595	5NJ	595	600	-	3412/3412C

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
108-9691	109-1596	5NJ	595	600	-	3412/3412C
109-0039	109-1597	5NJ	595	600	-	3412/3412C
109-0040	109-1598	7AJ	597	600	-	3412/3412C
109-1593	109-1599	7AJ	597	600	-	3412/3412C
109-1594	109-1600	7AJ	597	600	-	3412/3412C
109-1619	109-1601	5NJ	595	380	-	3412/3412C
109-1620	109-1602	5NJ	595	380	-	3412/3412C
109-1621	109-1603	5NJ	595	380	-	3412/3412C
109-1622	109-1604	7AJ	597	380	-	3412/3412C
109-1623	109-1605	7AJ	597	380	-	3412/3412C
109-1624	109-1606	7AJ	597	380	-	3412/3412C
109-3334	109-3375	6PK	448	240-480	200-400	3306/3306B
109-3352	109-3394	9EF	443	240-480	200-400	3208/3116
109-3767	109-3766	9EF	443	240-480	200-400	3208/3116
109-3769	109-3768	3KJ	444	240-480	200-400	3208
109-3771	109-3770	6CG	444	240-480	200-400	3306/3306B
109-3773	109-3772	6DG	445	240-480	200-400	3306/3306B
109-3775	109-3774	6EG	446	240-480	200-400	3306/3306B/ G3406/3406
109-3777	109-3776	8JF	447	240-480	200-400	G3306/3306/ 3306B/G3406/ 3406/3406B/ 3406C
109-3779	109-3778	8KF	448	240-480	200-400	3406B/3406C
109-3781	109-3780	8LF	449	240-480	200-400	3406B/3406C
109-3783	109-3782	9FF	450	240-480	200-400	G3406/3406/ 3406B/3406C
109-3785	109-3784	6DG	445	240-480	200-400	3308/3306B
109-3787	109-3786	6CG	444	240-480	200-400	3306/3306B
109-3789	109-3788	8LF	449	240-480	200-400	3406B/3406C
109-3791	109-3790	9FF	450	240-480	200-400	G3406/3406/ 3406B/3406C
109-3793	109-3792	9EF	443	600	-	3208/3116
109-3795	109-3794	3KJ	444	300-600	-	3208
109-3797	109-3796	6DG	445	600	-	3308/3306B
109-3799	109-3798	6EG	446	600	-	3306/3306B/ 3406/G3406
109-3801	109-3800	8LF	449	600	-	3406B/3406C
109-3803	109-3802	9FF	450	600	-	G3406/3406/ 3406B/3406C
109-3805	109-3804	3KJ	444	208	-	3208

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
109-3807	109-3806	9FF	450	208	-	G3406/3406/ 3406B/3406C
111-8246	111-8240	3YM	447	240-480	200-400	3306B
111-8247	111-8241	4LM	448	240-480	200-400	3406B
111-8248	111-8242	5JM	449	240-480	200-400	3406B
111-8249	111-8243	6JM	450	240-480	200-400	3406B
112-1265	112-1470	5JM	449	208	-	3406B
112-1463	112-1468	3YM	447	208	-	3306B
112-1464	112-1469	4LM	448	208	-	3406B
112-1473	112-1478	3YM	447	600	-	3306B
112-1474	112-1479	4LM	448	600	-	3406B
112-1475	112-1480	5JM	449	600	-	3406B
112-1476	112-1481	6JM	450	600	-	3406B
115-5102	115-5101 (1)(2)(3)(4)(5)(19)(20)(26)	3HN	691	380	-	3508
115-5104	115-5103 (1)(2)(3)(4)(5)(19)(20)(26)	4WN	692	380	-	3508/ 3512
115-5106	115-5105 (1)(2)(3)(4)(5)(19)(20)(26)	7DN	695	380	-	3512/ 3512B
115-5108	115-5107 (1)(2)(3)(4)(5)(19)(20)(26)	4EN	822	380	-	3512/ 3512B/ 3516
115-5110	115-5109 (1)(2)(3)(4)(5)(19)(20)(26)	5WN	824	380	-	3512/ 3512B/ 3516B
115-5112	115-5111 (1)(2)(3)(4)(5)(19)(20)(26)	4FN	825	380	-	3512B/ 3516/ 3516B
116-9740	116-9747	9FG	593	380	-	3412/3412C
116-9741	116-9750	9FG	593	600	-	3412/3412C
116-9742	116-9748	9FG	593	380	-	3412/3412C
116-9743	116-9749	9FG	593	380	-	3412/3412C
116-9744	116-9751	9FG	593	600	-	3412/3412C
116-9745	116-9752	9FG	593	600	-	3412/3412C
121-3195	121-3194	6PA	689	480	400	3508/ 3512/ 3516/ G3516
121-4612	121-4611 (6)(8)(9)(19)(20)(26)	2GM	692	480	-	3508/ 3508B
121-4614	121-4613 (2)(3)(8)(10)(11)(19)(20)(26)	2DN	692	480	-	3508/ 3508B
121-4616	121-4615 (2)(3)(4)(6)(12)(19)(20)(26)	4WN	692	480	-	3508/ 3508B
121-4618	121-4617 (2)(4)(6)(12)(13)(19)(20)(26)	2DN	692	2400 Delta, 4160	-	3508/ 3508B

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
121 - 4620	121 - 4619 (2)(6)(8)(11)(19)(20)(26)	2DN	692	380	-	3508/ 3508B
121 - 4622	121 - 4621 (2)(3)(4)(5)(6)(19)(20)(26)	4WN	692	380	-	3508/ 3508B
121 - 4624	121 - 4623 (2)(6)(8)(11)(19)(20)(26)	2DN	692	600	-	3508/ 3508B
121 - 4626	121 - 4625 (6)(7)(8)(9)(19)(20)(26)	3BM	693	480	-	3508/ 3508B
121 - 4628	121 - 4627 (2)(6)(8)(10)(11)(19)(20)(26)	2DM	693	480	-	3508/ 3508B
121 - 4630	121 - 4629 (2)(3)(4)(5)(6)(19)(20)(26)	6SN	693	480	-	3508/ 3508B
121 - 6849	121 - 6848 (6)(7)(8)(9)(19)(20)(26)	3EN	691	480	-	3508
121 - 6851	121 - 6850 (2)(6)(8)(10)(11)(19)(20)(26)	3FN	691	480	-	3508
121 - 6853	121 - 6852 (2)(3)(4)(5)(6)(19)(20)(26)	3HN	691	480	-	3508
121 - 6855	121 - 6854 (2)(4)(6)(12)(13)(19)(20)(26)	3FN	691	2400 Delta, 4160	-	3508
121 - 6857	121 - 6856 (2)(6)(8)(11)(19)(20)(26)	3FN	691	380	-	3508
121 - 6859	121 - 6858 (2)(3)(4)(5)(6)(19)(20)(26)	3HN	691	380	-	3508
121 - 6861	121 - 6860	3FN	691	600	-	3508
121 - 6867	121 - 6882	6JM	450	240-480	200-400	3406B
121 - 6869	121 - 6884	6JM	450	600	-	3406B
121 - 6870	121 - 6885	5JM	449	240-480	200-400	3406B
121 - 6871	121 - 6886	5JM	449	208	-	3406B
121 - 6872	121 - 6887	5JM	449	600	-	3406B
121 - 6873	121 - 6888	4LM	448	240-480	200-400	3406B
121 - 6874	121 - 6889	4LM	448	208	-	3406B
121 - 6875	121 - 6890	4LM	448	600	-	3406B
121 - 6876	121 - 6891	3YM	447	240-480	200-400	3306B
121 - 6877	121 - 6892	3YM	447	208	-	3306B
121 - 6878	121 - 6893	3YM	447	600	-	3306B
122 - 1179	122 - 1178 (6)(7)(8)(9)(19)(20)(26)	4DM	695	480	-	3508/3508B
122 - 1181	122 - 1180 (6)(7)(8)(9)(19)(20)(26)	2FN	695	480	-	3508/3508B
122 - 1183	122 - 1182 (2)(3)(4)(5)(6)(19)(20)(26)	7DN	695	480	-	3508/3508B
122 - 1185	122 - 1184 (2)(4)(6)(12)(13)(19)(20)(26)	2FN	695	2400 Delta, 4160	-	3508/3508B

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
122 - 1187	122 - 1186 (2)(6)(8)(11)(19)(20)(26)	2FN	695	380	-	3508/3508B
122 - 1189	122 - 1188 (2)(3)(4)(5)(6)(19)(20)(26)	7DN	695	380	-	3508/3508B
122 - 1191	122 - 1190 (2)(6)(8)(11)(19)(20)(26)	2FN	695	600	-	3508/3508B
123 - 3186	123 - 3183	3YM	447	240 Delta	-	3306B
123 - 3187	123 - 3184	5JM	449	240 Delta	-	3406B
123 - 3188	123 - 3185	6JM	450	240 Delta	-	3406B
129 - 1478	129 - 1502	9DR	450	240-480	200-400	3406E/3406C
129 - 1479	129 - 1503	9DR	450	240-480	200-400	3406E/3406C
129 - 1480	129 - 1504	9DR	450	600	-	3406E/3406C
129 - 1481	129 - 1505	9DR	450	600	-	3406E/3406C
129 - 1482	129 - 1506	8ER	449	240-480	200-400	3406C
129 - 1483	129 - 1507	8ER	449	240-480	200-400	3406C
129 - 1484	129 - 1508	8ER	449	600	-	3406C
129 - 1485	129 - 1509	8ER	449	600	-	3406C
129 - 1486	129 - 1510	9CR	448	240-480	200-400	G3406/3406C
129 - 1487	129 - 1511	9CR	448	240-480	200-400	G3406/3406C
129 - 1488	129 - 1512	9CR	448	600	-	G3406/3406C
129 - 1489	129 - 1513	9CR	448	600	-	G3406/3406C
129 - 1490	129 - 1514	8DR	447	240-480	200-400	3306B
129 - 1491	129 - 1515	8DR	447	240-480	200-400	3306B
129 - 1492	129 - 1516	8DR	447	600	-	3306B
129 - 1493	129 - 1517	8DR	447	600	-	3306B
129 - 1494	129 - 1518	7YR	446	240-480	200-400	3306B
129 - 1495	129 - 1519	7YR	446	240-480	200-400	3306B
129 - 1496	129 - 1520	7YR	446	600	-	3306B
129 - 1497	129 - 1521	7YR	446	600	-	3306B
129 - 1498	129 - 1522	6YR	445	240-480	200-400	3306B
129 - 1499	129 - 1523	6YR	445	240-480	200-400	3306B
129 - 1500	129 - 1524	6YR	445	600	-	3306B
129 - 1501	129 - 1525	6YR	445	600	-	3306B
129 - 5033	129 - 5034	1MS	598	480	400	3412
130 - 0232	130 - 0234	1MS	598	480	400	3412
130 - 0233	130 - 0235	1MS	598	480	400	3412
130 - 4711	130 - 4721	8ER	449	208	-	3406C
130 - 4712	130 - 4722	8ER	449	208	-	3406C

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
130-4713	130-4723	9CR	448	208	-	G3406/3406C
130-4714	130-4724	8DR	447	208	-	3306B
130-4715	130-4725	8DR	447	208	-	3306B
130-4716	130-4726	8DR	447	208	-	3306B
130-7567	130-7582	6YR	445	208	-	3306B
130-7568	130-7583	6YR	445	208	-	3306B
130-7569	130-7584	9DR	450	380	-	3406E/3406C
130-7570	130-7585	9DR	450	380	-	3406E/3406C
130-7571	130-7586	8ER	449	380	-	3406C
130-7572	130-7587	8ER	449	380	-	3406C
130-7573	130-7588	9CR	448	380	-	G3406/3406C
130-7574	130-7589	9CR	448	380	-	G3406/3406C
130-7575	130-7590	8DR	447	380	-	3306B
130-7576	130-7591	8DR	447	380	-	3306B
130-7577	130-7592	7YR	446	380	-	3306B
130-7578	130-7593	7YR	446	380	-	3306B
130-7579	130-7594	6YR	445	380	-	3306B
130-7581	130-7595	6YR	445	380	-	3306B
141-5520	141-5534	7RS	445	240-480	380/ 400/ 415	3306B
141-5521	141-5535	7RS	445	380/ 400/ 416	-	3306B
141-5522	141-5536	7SS	446	240-480	380/ 400/ 415	3306B
141-5523	141-5537	7SS	446	380/ 400/ 416	-	3306B
141-5524	141-5538	7TS	447	240-480	380/ 400/ 415	3306B
141-5525	141-5539	7TS	447	380/ 400/ 416	-	3306B
141-5526	141-5540	7XS	448	240-480	380/ 400/ 415	3406C
141-5527	141-5541	7XS	448	380/ 400/ 416	-	3406C
141-5528	141-5542	7YS	449	240-480	380/ 400/ 415	3406C
141-5529	141-5543	7YS	449	380/ 400/ 416	-	3406C
141-5530	141-5544	7ZS	450	240-480	380/ 400/ 415	3406C
141-5531	141-5545	7ZS	450	380	-	3406C
141-5532	141-5546	7WS	448	240-480	380/ 400/ 415	3306B
141-5533	141-5547	7WS	448	380/ 400/ 416	-	3306B
142-4934	142-4935	9DR	450	240-480	200-400	3406E/3406C
144-0558	144-0571	7RS	445	240-480	-	3306B
144-0559	144-0572	7RS	445	380/ 400/ 416	-	3306B
144-0560	144-0573	7SS	446	240-480	-	3306B
144-0561	144-0574	7SS	446	380/ 400/ 416	-	3306B
144-0562	144-0575	7TS	447	240-480	-	3306B

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
144-0563	144-0576	7TS	447	380/ 400/ 416	-	3306B
144-0564	144-0577	7XS	448	240-480	-	3406C
144-0565	144-0578	7XS	448	380/ 400/ 416	-	3406C
144-0566	144-0579	7YS	449	440/ 460/ 480	380/ 400/ 415	3406C
144-0567	144-0580	7YS	449	380 400/ 416	-	3406C
144-0468	144-0469	7ZS	450	440/ 460/ 480	380/ 400/ 415	3406C
144-0568	144-0581	7ZS	450	380	-	3406C
144-0569	144-0582	7WS	448	240-480	-	3306C
144-0570	144-0583	7WS	448	380/ 400/ 416	-	3306C
144-1706	144-1705	6DW	697	480	-	3512/3516
144-1712	144-1711	7GM	824	480	-	3512/ 3512B/ 3516/ 3516B/ 3516
144-1716	144-1715	8DM	825	480	-	3512B/ 3516/ 3516B
144-1718	144-1717	1HN	826	480	-	3512B/ 3516/ 3516B
144-1724	144-1723	2GN	696	480	-	3512/ 3512B
144-1746	144-1745	3FN	691	240-480	-	3508/ 3508B
144-1748	144-1747	3FN	691	240-480	-	3508/ 3508B
144-1750	144-1749	2DN	692	240-480	-	G3508/ 3508/ 3508B/ 3512
144-1752	144-1751	2DN	692	240-480	-	G3508/ 3508/ 3508B/ 3512I
144-1754	144-1753	2DM	693	240-480	-	3508/ 3508B/ 3512/ 3512B/ G3516
144-1756	144-1755	2DM	693	240-480	-	3508/ 3508B/ 3512/ 3512B/ G3516
144-1758	144-1757	2FN	695	240-480	-	3508/ 3508B/ 3512/ 3512B/ G3512
144-1760	144-1749	2FN	695	240-480	-	3508/ 3508B/ 3512/ 3512B/ G3512
144-1812	144-1811	8HM	696	480	-	3508B/ 3512/ 3512B
144-1814	144-1813	8GW	697	480	-	3512/ 3512B/ 3516/ G3516/ G3516B
144-1820	144-1819	5WN	824	480	-	3512/ 3512B/ 3512/ 3516/ 3516B/ G3516/ G3516B

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
144-1824	144-1723	4FN	825	480	-	3512B/ 3516/ 3516B
144-1826	144-1825	7TN	826	480	-	3512B/ 3516/ 3516B
144-1828	144-1827	4GN	827	480	-	3512B/ 3516/ 3516B
144-1836	144-1835	3HN	691	480	-	3508/ 3508B/ 3508
144-1838	144-1837	4WN	692	480	-	G3508/ 3508/ 3508B/ 3512
144-1840	144-1839	4WN	692	480	-	G3508/ 3508/ 3508B/ 3512
144-1842	144-1841	6SN	693	480	-	3512/ 3512B/ 3516/ 3516B
144-1844	144-1843	6SN	693	480	-	3512/ 3512B/ 3516/ 3516B
144-1846	144-1845	7DN	695	480	-	3512/ 3512B/ 3516/ 3516B
144-1848	144-1847	7DN	695	480	-	3512/ 3512B/ 3516/ 3516B
144-1952	144-1951	4FN	825	480	-	3512B/ 3516/ 3516B
147-9438	147-9437	3FN	691	380	-	3508/ 3508B
147-9440	147-9439	3FN	691	380	-	3508/ 3508B
147-9442	147-9441	2DN	692	380	-	G3508/ 3508/ 3508B/ 3512
147-9444	147-9443	2DN	692	380	-	G3508/ 3508/ 3508B/ 3512
147-9450	147-9449	2FN	695	380	-	3508/ 3508B/ 3512/ 3512B/ G3512
147-9452	147-9451	2FN	695	380	-	3508/ 3508B/ 3512/ 3512B/ G3512
147-9454	147-9453	2GN	696	380	-	3512/ 3512B
147-9490	149-9489	4EN	822	380	-	3508/ 3512/ 3512B/ 3516
147-9494	147-9493	5WN	824	380	-	3512/ 3512B/ 3516/ 3516B/ G3516/ G3516B
147-9498	147-9497	4FN	825	380	-	3512B/ 3516/ 3516B
149-2429	149-2447	6NW	590	440/ 460/ 480	380/ 400/ 415	3406E/3412C
149-2430	149-2448	6NW	590	380/ 400/ 416	-	3406E/3412C
149-2431	149-2449	6TW	591	440/ 460/ 480	380/ 400/ 415	3406E/3412C
149-2432	149-2450	6TW	591	380/ 400/ 416	-	3406E/3412C
149-2433	149-2451	6ZW	592	440/ 460/ 480	380/ 400/ 415	3406E/3412C

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
149-2434	149-2452	6ZW	592	380/ 400/ 416	-	3406E/3412C
149-2435	149-2453	8SW	593	440/ 460/ 480	380/ 400/ 415	3406E/3412C
149-2436	149-2454	8SW	593	380/ 400/ 416	-	3406E/3412C
149-2437	149-2455	8VW	594	440/ 460/ 480	380/ 400/ 415	3412C
149-2438	149-2456	8VW	594	380/ 400/ 416	-	3412C
149-2439	149-2457	9DW	595	440/ 460/ 480	380/ 400/ 415	3412C
149-2440	149-2458	9DW	595	380/ 400/ 416	-	3412C
149-2441	149-2459	9HW	596	440/ 460/ 480	380/ 400/ 415	3412C
149-2442	149-2460	9HW	596	380/ 400/ 416	-	3412C
149-2443	149-2461	9LW	597	440/ 460/ 480	380/ 400/ 415	3412C
149-2444	149-2462	9LW	597	380/ 400/ 416	190/ 200/ 208	3412C
149-2445	149-2463	9RW	598	240-480	440-460	3412C
149-2446	149-2464	9RW	598	380/ 400/ 416	-	3412C
153-3063	153-3081	6NW	590	440/ 460/ 480	380/ 400/ 415	3406E/3412C
153-3064	153-3082	6NW	590	380/ 400/ 416	-	3406E/3412C
153-3065	153-3083	6TW	591	440/ 460/ 480	380/ 400/ 415	3406E/3412C
153-3066	153-3084	6TW	591	380/ 400/416	-	3406E/3412C
153-3067	153-3085	6ZW	592	440/ 460/ 480	380/ 400/ 415	3406E/3412C
153-3068	153-3086	6ZW	592	380/ 400/ 416	-	3406E/3412C
153-3069	153-3087	8SW	593	440/ 460/ 480	380/ 400/ 415	3406E/3412C
153-3070	153-3088	8SW	593	380/ 400/ 416	-	3406E/3412C
153-3071	153-3089	8WW	594	440/ 460/ 480	380/ 400/ 415	3412C
153-3072	153-3090	8WW	594	380/ 400/ 416	-	3412C
153-3073	153-3091	9DW	595	440/ 460/ 480	380/ 400/ 415	3412C
153-3074	153-3092	9DW	595	380/ 400/ 416	-	3412C
153-3075	153-3093	9HW	596	440/ 460/ 480	380/ 400/ 415	3412C
153-3076	153-3094	9HW	596	380/ 400/ 416	-	3412C
153-3077	153-3095	9LW	597	440/ 460/ 480	380/ 400/ 415	3412C
153-3078	153-3096	9LW	597	380/ 400/ 416	190/ 200/ 208	3412C
153-3079	153-3097	9RW	598	240-480	440-460	3412C
153-3080	153-3098	9RW	598	380/ 400/ 416	-	3412C
164-0962	164-0975	3HW	498	440/ 460/ 480	380/ 400/ 415	3406E
164-0963	164-0976	3HW	498	380	-	3406E
164-0965	164-0977	3HW	498	300-600	-	3406E
164-0966	164-0979	7ZL	499	440/ 460/ 480	380/ 400/ 415	3406E
164-0967	164-0980	7ZL	499	380	-	3406E
164-0968	164-0981	7ZL	499	300-600	-	3406E

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
164-0969	164-0982	3HW	498	440/ 460/ 480	380/ 400/ 415	3406E
164-0970	164-0983	3HW	498	380	-	3406E
164-0971	164-0984	3HW	498	300-600	-	3406E
164-0972	164-0985	7ZL	499	440/ 460/ 480	380/ 400/ 415	3406E
164-0973	164-0986	7ZL	499	380	-	3406E
164-0974	164-0987	7ZL	499	300-600	-	3406E
166-2652	166-2651	ABH	691	240-480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2654	166-2653	ABH	691	240-480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2656	166-2655	ABH	691	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2658	166-2657	ABH	691	380	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2660	166-2659	ABH	691	380	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2662	166-2661	ABM	692	240-480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2664	166-2663	ABM	692	240-480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2666	166-2665	ABM	692	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2668	166-2667	ABM	692	380	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2670	166-2669	ABM	692	380	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2672	166-2671	ABY	693	240-480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2674	166-2673	ABY	693	240-480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2676	166-2675	ABY	693	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2678	166-2677	ABY	693	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
166-2680	166-2679	ACA	695	240-480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2682	166-2681	ACA	695	240-480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2684	166-2683	ACA	695	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2686	166-2685	ACA	695	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2688	166-2687	ACA	695	380	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2690	166-2689	ACA	695	380	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2692	166-2691	ACP	696	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2694	166-2693	ACP	696	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2696	166-2695	ACP	696	380	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2698	166-2697	ACX	697	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2700	166-2699	ACX	697	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2702	166-2701	ADD	822	380	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2704	166-2703	ADL	824	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2706	166-2705	ADL	824	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2708	166-2707	ADL	824	380	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2710	166-2709	ADR	825	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2712	166-2711	ADR	825	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B

(continued)

(Table 757, contd)

Generator Arrangement Number	Generator Group Number	Serial Number	Frame Size	Voltage at 60 Hz	Voltage at 50 Hz	Engine Sales Model
166-2714	166-2713	ADR	825	380	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2716	166-2715	AEB	826	480		3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2718	166-2717	AEB	826	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
166-2720	166-2719	AEZ	827	480	-	3508/ 3508B/ 3512/ 3512B/ 3516/ 3516B
167-1347	167-1351	3HW	498	208-416	-	3406E
167-1348	167-1352	7ZL	499	440/ 460/ 480	380/ 400/ 415	3406E
167-1349	167-1353	3HW	498	208-416	-	3406E
167-1350	167-1354	7ZL	499	440/ 460/ 480	380/ 400/ 415	3406E
194-6570	194-6560	3HW	498	220-440	-	3406E
194-6571	194-6561	3HW	498	220-440	-	3406E
194-6572	194-6562	7ZL	499	220-440	-	3406E
194-6573	194-6563	7ZL	499	220-440	-	3406E
203-5750	203-5749	6ZZ	862	600	-	3508/ 3508B/ 3516
203-5752	203-5751	8PZ	864	600	-	3512/ 3512B/ 3512
203-5754	203-5753	9DZ	866	600	-	3512/ 3512B/ 3516/ 3516B
203-5756	203-5755	9RZ	867	600	-	3512/ 3512B/ 3516/ 3516B
203-5758	203-5757	9XZ	868	600	-	3516/ 3516B

(1) – Single bearing generator

(2) – Generator includes a Permanent Magnet (PM) exciter

(3) – Harsh environment generator

(4) – Form wound generator

(5) – Main stator insulation: coastal insulation protection

(6) – Two-bearing generator

(7) – Self-excited generator

(8) – Random wound generator

(9) – Main stator insulation: 1 vacuum impregnation

(10) – Marine Society Approved generator. Meets requirements of ABS, Lloyd's & DNV.

(11) – Stator insulation: 1 vacuum impregnation and 1 dip of epoxy

(12) – Main stator insulation: 1 vacuum pressure impregnation and 1 dip and bake in epoxy resin

(13) – Medium voltage generator

(14) – All generators have 10 leads except 800 frame models. The 800 frame models have only 4 leads. The 800 frame generators have only the higher voltage and are not reconnectable.

(15) – LS = Low Speed (1200 RPM).

(16) – Tropicalized generators that were built to customer order prior to standardizing on this insulation system for all generators. This change was effective with S/N 100-Up.

(17) – First production release that used thermal protector (Klixon Breaker) in regulator assembly. Standard on all SR4 generators effective with S/N 5N-300 and Up.

(18) – Generator includes space heater in accordance to Marine Society Specifications.

(19) – Generators rated 3 phase, 60 Hz, 240-480 Volts also used for 3 phase, 50 Hz, 200-400 Volts at nominally 80% of 60 Hz kilowatt rating.

(20) – Generators rated 3 phase, 60 Hz, 300-600 Volts also used for 3 phase, 50 Hz, 240-480 Volts at nominally 80% of 50 Hz kilowatt rating. All generators S/N 3000-Up will have series boost capabilities.

(21) – Many of the generators included have series boost capability

(22) – Generators include space heaters

(23) – Oil field generator

(24) – Generators for standby service only

(25) – Generators for prime power service only

(26) – 3 phase, 4 pole generator

(27) – 3 phase, 6 pole generator

(29) – Generator for use with power modules

(30) – Main stator insulation: 2 dips and bakes in epoxy resin

(31) – Main stator insulation: 4 dips and bakes in epoxy resin

Index

C

Component Views	5
Connection Diagrams for Exciter	824
Connection Diagram A	824
Connection Diagram B	825
Connection Diagram C	825
Connection Diagram D	826
Connection Diagram E	826
Connection Diagram F	827
Connection Diagram G	827
Connection Diagram H	828
Connection Diagram I	828
Connection Diagrams for Main Stator and Main Rotor	773
Connection Diagram 01	773
Connection Diagram 02	774
Connection Diagram 03	775
Connection Diagram 04	776
Connection Diagram 05	777
Connection Diagram 06	778
Connection Diagram 07	778
Connection Diagram 08	779
Connection Diagram 09	779
Connection Diagram 10	780
Connection Diagram 11	781
Connection Diagram 12	782
Connection Diagram 13	783
Connection Diagram 14	784
Connection Diagram 15	785
Connection Diagram 16	785
Connection Diagram 17	786
Connection Diagram 18	787
Connection Diagram 19	787
Connection Diagram 20	788
Connection Diagram 21	789
Connection Diagram 22	790
Connection Diagram 23	791
Connection Diagram 24	792
Connection Diagram 25	793
Connection Diagram 26	794
Connection Diagram 27	795
Connection Diagram 28	796
Connection Diagram 29	796
Connection Diagram 30	797
Connection Diagram 31	797
Connection Diagram 32	798
Connection Diagram 33	798
Connection Diagram 34	799
Connection Diagram 35	800
Connection Diagram 36	801
Connection Diagram 37	802
Connection Diagram 38	803
Connection Diagram 39	804
Connection Diagram 40	804
Connection Diagram 41	805
Connection Diagram 42	805
Connection Diagram 43	806
Connection Diagram 44	806
Connection Diagram 45	807

Connection Diagram 46	808
Connection Diagram 47	809
Connection Diagram 48	810
Connection Diagram 49	811
Connection Diagram 50	812
Connection Diagram 51	812
Connection Diagram 52	813
Connection Diagram 53	813
Connection Diagram 54	814
Connection Diagram 55	814
Connection Diagram 56	815
Connection Diagram 57	815
Connection Diagram 58	816
Connection Diagram 59	816
Connection Diagram 60	817
Connection Diagram 61	818
Connection Diagram 62	819
Connection Diagram 63	820
Connection Diagram 64	821
Connection Diagram 65	822
Connection Diagram 66	823

G

General Information	4
Balance	5
Generator Identification	4
Resistance	5
Testing	5
Varnish	5
Wire Standards	4
Generator Identification	829

I

Important Safety Information	2

S

Specifications Section	4

T

Table of Contents	3
Terminology	6

W

Winding Data for 102-2415 Generator through

108-3052 Generator	10
102-2415 Generator	10
102-2417 Generator	11
103-1254 Generator	12
106-3578 Generator	13
106-3579 Generator	14
106-3652 Generator	15
107-2967 Generator	16
107-3133 Generator	17
108-3052 Generator	18

Winding Data for 109-1595 Generator through

109-3774 Generator	19
109-1595 Generator	19
109-1596 Generator	20
109-1597 Generator	21
109-1598 Generator	22
109-1599 Generator	23
109-1600 Generator	24
109-1601 Generator	25
109-1602 Generator	26
109-1603 Generator	27
109-1604 Generator	28
109-1605 Generator	29
109-1606 Generator	30
109-3375 Generator	31
109-3394 Generator	32
109-3766 Generator	33
109-3768 Generator	34
109-3770 Generator	35
109-3772 Generator	36
109-3774 Generator	37

Winding Data for 109-3776 Generator through

109-3806 Generator	38
109-3776 Generator	38
109-3778 Generator	40
109-3780 Generator	41
109-3782 Generator	42
109-3784 Generator	43
109-3786 Generator	44
109-3788 Generator	45
109-3790 Generator	46
109-3792 Generator	47
109-3794 Generator	48
109-3796 Generator	49
109-3798 Generator	50
109-3800 Generator	51
109-3802 Generator	52
109-3804 Generator	53
109-3806 Generator	54

Winding Data for 111-8240 Generator through

112-1481 Generator	55
111-8240 Generator	55
111-8241 Generator	56
111-8242 Generator	57
111-8243 Generator	58
112-1468 Generator	59
112-1469 Generator	60
112-1470 Generator	61
112-1478 Generator	62
112-1479 Generator	63
112-1480 Generator	64
112-1481 Generator	65

Winding Data for 115-5101 Generator through

121-6860 Generator	66
115-5101 Generator	66
115-5103 Generator	67
115-5105 Generator	68
115-5107 Generator	69
115-5109 Generator	70
115-5111 Generator	71
116-9747 Generator	72
116-9748 Generator	73
116-9749 Generator	74
116-9750 Generator	75
116-9751 Generator	76
116-9752 Generator	77
121-3194 Generator	78
121-4611 Generator	79
121-4613 Generator	80
121-4615 Generator	81
121-4617 Generator	82
121-4619 Generator	83
121-4621 Generator	84
121-4623 Generator	85
121-4625 Generator	86
121-4627 Generator	87
121-4629 Generator	88
121-6848 Generator	89
121-6850 Generator	90
121-6852 Generator	91
121-6854 Generator	92
121-6856 Generator	93
121-6858 Generator	94
121-6860 Generator	95

Winding Data for 121-6882 Generator through

123-3185 Generator	96
121-6882 Generator	96
121-6884 Generator	97
121-6885 Generator	98
121-6886 Generator	99
121-6887 Generator	100
121-6888 Generator	101
121-6889 Generator	102
121-6890 Generator	103
121-6891 Generator	104
121-6892 Generator	105
121-6893 Generator	106
122-1178 Generator	107
122-1180 Generator	108
122-1182 Generator	109
122-1184 Generator	110
122-1186 Generator	111
122-1188 Generator	112
122-1190 Generator	113
123-3183 Generator	114
123-3184 Generator	115
123-3185 Generator	116

Winding Data for 129-1502 Generator through

129-5034 Generator	117
129-1502 Generator	117
129-1503 Generator	118
129-1504 Generator	119
129-1505 Generator	120
129-1506 Generator	121
129-1507 Generator	122
129-1508 Generator	123
129-1509 Generator	124
129-1510 Generator	125
129-1511 Generator	126
129-1512 Generator	127
129-1513 Generator	128
129-1514 Generator	129
129-1515 Generator	130
129-1516 Generator	131
129-1517 Generator	132
129-1518 Generator	133
129-1519 Generator	134
129-1520 Generator	135
129-1521 Generator	136
129-1522 Generator	137
129-1523 Generator	138
129-1524 Generator	139
129-1525 Generator	140
129-5034 Generator	141

Winding Data for 130-0234 Generator through

130-7595 Generator	142
130-0234 Generator	142
130-0235 Generator	143
130-4721 Generator	144
130-4722 Generator	145
130-4723 Generator	146
130-4724 Generator	147
130-4725 Generator	148
130-4726 Generator	149
130-7582 Generator	150
130-7583 Generator	151
130-7584 Generator	152
130-7585 Generator	153
130-7586 Generator	154
130-7587 Generator	155
130-7588 Generator	156
130-7589 Generator	157
130-7590 Generator	158
130-7591 Generator	159
130-7592 Generator	160
130-7593 Generator	161
130-7594 Generator	162
130-7595 Generator	163

Winding Data for 141-5534 Generator through

142-4935 Generator	164
141-5534 Generator	164
141-5535 Generator	165
141-5536 Generator	166
141-5537 Generator	167
141-5538 Generator	168
141-5539 Generator	169
141-5540 Generator	170
141-5541 Generator	171
141-5542 Generator	172
141-5543 Generator	173
141-5544 Generator	174
141-5545 Generator	175
141-5546 Generator	176
141-5547 Generator	177
142-4935 Generator	178

Winding Data for 144-0469 Generator through

144-0583 Generator	179
144-0469 Generator	179
144-0571 Generator	180
144-0572 Generator	181
144-0573 Generator	182
144-0574 Generator	183
144-0575 Generator	184
144-0576 Generator	185
144-0577 Generator	186
144-0578 Generator	187
144-0579 Generator	188
144-0580 Generator	189
144-0581 Generator	190
144-0582 Generator	191
144-0583 Generator	192

Winding Data for 144-1705 Generator through

144-1759 Generator	193
144 - 1705 Generator	193
144 - 1713 Generator	194
144 - 1715 Generator	195
144 - 1717 Generator	196
144 - 1723 Generator	197
144 - 1745 Generator	198
144 - 1747 Generator	199
144 - 1749 Generator	200
144 - 1751 Generator	201
144 - 1753 Generator	202
144 - 1755 Generator	203
144 - 1757 Generator	204
144 - 1759 Generator	205

Winding Data for 144-1811 Generator through

144-1951 Generator	206
144 - 1811 Generator	206
144 - 1813 Generator	207
144 - 1819 Generator	208
144 - 1823 Generator	209
144 - 1825 Generator	210
144 - 1827 Generator	211
144 - 1835 Generator	212
144 - 1837 Generator	213
144 - 1839 Generator	214
144 - 1841 Generator	215
144 - 1843 Generator	216
144 - 1845 Generator	217
144 - 1847 Generator	218
144 - 1951 Generator	219

Winding Data for 147-9437 Generator through

147-9497 Generator	220
147 - 9437 Generator	220
147 - 9439 Generator	221
147 - 9441 Generator	222
147 - 9443 Generator	223
147 - 9449 Generator	224
147 - 9451 Generator	225
147 - 9453 Generator	226
147 - 9489 Generator	227
147 - 9493 Generator	228
147 - 9497 Generator	229

Winding Data for 149-2447 Generator through

149-2464 Generator	230
149 - 2447 Generator	230
149 - 2448 Generator	231
149 - 2449 Generator	232
149 - 2450 Generator	233
149 - 2451 Generator	234
149 - 2452 Generator	235
149 - 2453 Generator	236
149 - 2454 Generator	237
149 - 2455 Generator	238
149 - 2456 Generator	239
149 - 2457 Generator	240
149 - 2458 Generator	241
149 - 2459 Generator	242
149 - 2460 Generator	243
149 - 2461 Generator	244
149 - 2462 Generator	245
149 - 2463 Generator	246
149 - 2464 Generator	247

Winding Data for 153-3081 Generator through

153-3098 Generator	248
153 - 3081 Generator	248
153 - 3082 Generator	249
153 - 3083 Generator	250
153 - 3084 Generator	251
153 - 3085 Generator	252
153 - 3086 Generator	253
153 - 3087 Generator	254
153 - 3088 Generator	255
153 - 3089 Generator	256
153 - 3090 Generator	257
153 - 3091 Generator	258
153 - 3092 Generator	259
153 - 3093 Generator	260
153 - 3094 Generator	261
153 - 3095 Generator	262
153 - 3096 Generator	263
153 - 3097 Generator	264
153 - 3098 Generator	265

Winding Data for 164-0975 Generator through

164-0987 Generator	266
164 - 0975 Generator	266
164 - 0976 Generator	267
164 - 0977 Generator	268
164 - 0979 Generator	269
164 - 0980 Generator	270
164 - 0981 Generator	271
164 - 0982 Generator	272
164 - 0983 Generator	273
164 - 0984 Generator	274
164 - 0985 Generator	275
164 - 0986 Generator	276
164 - 0987 Generator	277

Winding Data for 166-2651 Generator through

166-2689 Generator	278
166 - 2651 Generator	278
166 - 2653 Generator	279
166 - 2655 Generator	280
166 - 2657 Generator	281
166 - 2659 Generator	282
166 - 2661 Generator	283
166 - 2663 Generator	284
166 - 2665 Generator	285
166 - 2667 Generator	286
166 - 2669 Generator	287
166 - 2671 Generator	288
166 - 2673 Generator	289
166 - 2675 Generator	290
166 - 2677 Generator	291
166 - 2679 Generator	292
166 - 2681 Generator	293
166 - 2683 Generator	294
166 - 2685 Generator	295
166 - 2687 Generator	296
166 - 2689 Generator	297

Winding Data for 166-2691 Generator through

166-7187 Generator	298
166 - 2691 Generator	298
166 - 2693 Generator	299
166 - 2695 Generator	300
166 - 2697 Generator	301
166 - 2699 Generator	302
166 - 2701 Generator	303
166 - 2703 Generator	304
166 - 2705 Generator	305
166 - 2707 Generator	306
166 - 2709 Generator	307
166 - 2711 Generator	308
166 - 2713 Generator	309
166 - 2715 Generator	310
166 - 2717 Generator	311
166 - 2719 Generator	312
166 - 7187 Generator	313

Winding Data for 167-1351 Generator through

167-1354 Generator	314
167 - 1351 Generator	314
167 - 1352 Generator	315
167 - 1353 Generator	316
167 - 1354 Generator	317

Winding Data for 194-6560 Generator through

194-6563 Generator	318
194 - 6560 Generator	318
194 - 6561 Generator	319
194 - 6562 Generator	320
194 - 6563 Generator	321

Winding Data for 203-5749 Generator through

203-5757 Generator	322
203 - 5749 Generator	322
203 - 5751 Generator	323
203 - 5753 Generator	324
203 - 5755 Generator	325
203 - 5757 Generator	326

Winding Data for 4P - 2236 Generator through

4P - 9907 Generator	327
4P - 2236 Generator.....	327
4P - 2238 Generator.....	328
4P - 2240 Generator.....	329
4P - 2242 Generator.....	330
4P - 2246 Generator.....	331
4P - 3015 Generator.....	332
4P - 4533 Generator.....	333
4P - 4541 Generator.....	334
4P - 4543 Generator.....	335
4P - 4545 Generator.....	336
4P - 4551 Generator.....	337
4P - 4565 Generator.....	338
4P - 4567 Generator.....	339
4P - 4569 Generator.....	340
4P - 4571 Generator.....	341
4P - 4573 Generator.....	342
4P - 4575 Generator.....	343
4P - 4577 Generator.....	344
4P - 4579 Generator.....	345
4P - 4581 Generator.....	346
4P - 4583 Generator.....	347
4P - 4585 Generator.....	348
4P - 4587 Generator.....	349
4P - 4589 Generator.....	350
4P - 4596 Generator.....	351
4P - 4598 Generator.....	352
4P - 4600 Generator.....	353
4P - 7270 Generator.....	354
4P - 7272 Generator.....	355
4P - 7698 Generator.....	356
4P - 9688 Generator.....	357
4P - 9690 Generator.....	358
4P - 9692 Generator.....	359
4P - 9905 Generator.....	360
4P - 9906 Generator.....	361
4P - 9907 Generator.....	362

Winding Data for 4W-0183 Generator through

4W-9669 Generator	363
4W-0183 Generator.....	363
4W-0184 Generator.....	364
4W-6905 Generator.....	365
4W-7049 Generator.....	366
4W-7421 Generator.....	367
4W-7422 Generator.....	368
4W-7423 Generator.....	369
4W-7424 Generator.....	370
4W-7425 Generator.....	371
4W-7427 Generator.....	372
4W-7428 Generator.....	373
4W-7429 Generator.....	374
4W-7430 Generator.....	375
4W-7431 Generator.....	376
4W-7433 Generator.....	377
4W-7434 Generator.....	378
4W-8950 Generator.....	379
4W-8951 Generator.....	380
4W-8952 Generator.....	381
4W-8953 Generator.....	382
4W-8954 Generator.....	383
4W-9069 Generator.....	384
4W-9666 Generator.....	385
4W-9667 Generator.....	386
4W-9668 Generator.....	387
4W-9669 Generator.....	388

Winding Data for 5N-0001 Generator through

5N-0025 Generator	389
5N-0001 Generator.....	389
5N-0002 Generator.....	391
5N-0003 Generator.....	392
5N-0004 Generator.....	393
5N-0005 Generator.....	394
5N-0006 Generator.....	395
5N-0007 Generator.....	396
5N-0010 Generator.....	397
5N-0011 Generator.....	398
5N-0012 Generator.....	399
5N-0013 Generator.....	400
5N-0014 Generator.....	401
5N-0015 Generator.....	402
5N-0016 Generator.....	403
5N-0017 Generator.....	404
5N-0018 Generator.....	405
5N-0019 Generator.....	406
5N-0020 Generator.....	407
5N-0021 Generator.....	408
5N-0022 Generator.....	409
5N-0023 Generator.....	410
5N-0024 Generator.....	411
5N-0025 Generator.....	412

Winding Data for 5N-0027 Generator

through 5N-0050 Generator.....	413
5N-0027 Generator.....	413
5N-0028 Generator.....	414
5N-0029 Generator.....	415
5N-0030 Generator.....	416
5N-0031 Generator.....	417
5N-0032 Generator.....	418
5N-0033 Generator.....	420
5N-0034 Generator.....	421
5N-0035 Generator.....	422
5N-0036 Generator.....	423
5N-0037 Generator.....	424
5N-0038 Generator.....	425
5N-0039 Generator.....	426
5N-0040 Generator.....	427
5N-0041 Generator.....	428
5N-0042 Generator.....	429
5N-0043 Generator.....	430
5N-0044 Generator.....	431
5N-0045 Generator.....	432
5N-0046 Generator.....	433
5N-0047 Generator.....	434
5N-0048 Generator.....	435
5N-0049 Generator.....	436
5N-0050 Generator.....	437

Winding Data for 5N-0051 Generator through

5N-0075 Generator	438
5N-0051 Generator.....	438
5N-0052 Generator.....	440
5N-0053 Generator.....	441
5N-0054 Generator.....	442
5N-0055 Generator.....	443
5N-0056 Generator	444
5N-0057 Generator.....	445
5N-0058 Generator.....	446
5N-0059 Generator.....	448
5N-0060 Generator.....	450
5N-0061 Generator.....	452
5N-0062 Generator.....	453
5N-0063 Generator.....	455
5N-0064 Generator.....	456
5N-0065 Generator.....	457
5N-0066 Generator.....	458
5N-0067 Generator.....	459
5N-0068 Generator.....	460
5N-0069 Generator.....	461
5N-0070 Generator.....	462
5N-0071 Generator.....	463
5N-0072 Generator.....	464
5N-0073 Generator.....	466
5N-0074 Generator.....	467
5N-0075 Generator.....	468

Winding Data for 5N-0076 Generator through

5N-0090 Generator	469
5N-0076 Generator.....	469
5N-0077 Generator.....	470
5N-0078 Generator.....	471
5N-0079 Generator.....	472
5N-0080 Generator.....	473
5N-0081 Generator.....	474
5N-0082 Generator.....	475
5N-0083 Generator.....	476
5N-0084 Generator.....	477
5N-0085 Generator.....	478
5N-0086 Generator.....	479
5N-0087 Generator.....	480
5N-0088 Generator.....	481
5N-0089 Generator.....	482
5N-0090 Generator.....	483

Winding Data for 5N-0431 Generator through

5N-7207 Generator	484
5N-0431 Generator.....	484
5N-4999 Generator.....	485
5N-5000 Generator.....	486
5N-5001 Generator.....	487
5N-5005 Generator.....	488
5N-5006 Generator.....	489
5N-5007 Generator.....	490
5N-5008 Generator.....	491
5N-5026 Generator.....	492
5N-7064 Generator.....	493
5N-7065 Generator.....	494
5N-7066 Generator.....	495
5N-7067 Generator.....	496
5N-7068 Generator.....	497
5N-7069 Generator.....	498
5N-7070 Generator.....	499
5N-7071 Generator.....	500
5N-7200 Generator.....	501
5N-7201 Generator.....	502
5N-7202 Generator.....	503
5N-7203 Generator.....	504
5N-7204 Generator.....	505
5N-7205 Generator.....	506
5N-7206 Generator.....	507
5N-7207 Generator.....	508

Winding Data for 5N-7208 Generator through

5N-7232 Generator	509
5N-7208 Generator.....	509
5N-7209 Generator.....	510
5N-7210 Generator.....	511
5N-7211 Generator.....	512
5N-7212 Generator.....	513
5N-7213 Generator.....	514
5N-7214 Generator.....	515
5N-7215 Generator.....	516
5N-7216 Generator.....	517
5N-7217 Generator.....	518
5N-7218 Generator.....	519
5N-7219 Generator.....	520
5N-7220 Generator.....	521
5N-7221 Generator.....	522
5N-7222 Generator.....	523
5N-7223 Generator.....	524
5N-7224 Generator.....	525
5N-7225 Generator.....	526
5N-7226 Generator.....	527
5N-7227 Generator.....	528
5N-7228 Generator.....	529
5N-7229 Generator.....	530
5N-7230 Generator.....	531
5N-7231 Generator.....	532
5N-7232 Generator.....	533

Winding Data for 5N-7233 Generator through

5N-7309 Generator	534
5N-7233 Generator.....	534
5N-7234 Generator.....	536
5N-7235 Generator.....	537
5N-7236 Generator.....	538
5N-7237 Generator.....	539
5N-7238 Generator.....	540
5N-7240 Generator.....	541
5N-7241 Generator.....	542
5N-7242 Generator.....	543
5N-7243 Generator.....	544
5N-7244 Generator.....	545
5N-7245 Generator.....	546
5N-7246 Generator.....	547
5N-7247 Generator.....	548
5N-7248 Generator.....	549
5N-7249 Generator.....	550
5N-7250 Generator.....	551
5N-7251 Generator.....	552
5N-7256 Generator.....	553
5N-7257 Generator.....	554
5N-7258 Generator.....	555
5N-7259 Generator.....	556
5N-7308 Generator.....	557
5N-7309 Generator.....	558

Winding Data for 5N-8891 Generator through

5N-8911 Generator	559
5N-8891 Generator.....	559
5N-8892 Generator.....	560
5N-8893 Generator.....	561
5N-8894 Generator.....	562
5N-8895 Generator.....	563
5N-8896 Generator.....	564
5N-8897 Generator.....	565
5N-8898 Generator.....	566
5N-8899 Generator.....	567
5N-8900 Generator.....	568
5N-8901 Generator.....	569
5N-8902 Generator.....	570
5N-8903 Generator.....	571
5N-8904 Generator.....	572
5N-8905 Generator.....	573
5N-8906 Generator.....	574
5N-8908 Generator.....	575
5N-8909 Generator.....	576
5N-8910 Generator.....	577
5N-8911 Generator.....	578

Winding Data for 5N-9081 Generator through

5N-9432 Generator	579
5N-9081 Generator.....	579
5N-9082 Generator.....	580
5N-9083 Generator.....	581
5N-9084 Generator.....	582
5N-9085 Generator.....	583
5N-9086 Generator.....	584
5N-9087 Generator.....	585
5N-9088 Generator.....	586
5N-9089 Generator.....	587
5N-9432 Generator.....	588

Winding Data for 6I-0053 Generator through

6I-4853 Generator	589
6I-0053 Generator.....	589
6I-0055 Generator.....	591
6I-0056 Generator.....	592
6I-0059 Generator.....	593
6I-0061 Generator.....	594
6I-0063 Generator.....	595
6I-0065 Generator.....	596
6I-2676 Generator.....	597
6I-3088 Generator.....	598
6I-3090 Generator.....	599
6I-3092 Generator.....	600
6I-3094 Generator.....	601
6I-4827 Generator.....	602
6I-4829 Generator.....	603
6I-4833 Generator.....	604
6I-4835 Generator.....	605
6I-4839 Generator.....	606
6I-4841 Generator.....	607
6I-4843 Generator.....	608
6I-4845 Generator.....	609
6I-4847 Generator.....	610
6I-4849 Generator.....	611
6I-4851 Generator.....	612
6I-4853 Generator.....	613

Winding Data for 7C-1601 Generator through

7C-9126 Generator	614
7C-1601 Generator.....	614
7C-1602 Generator.....	615
7C-1603 Generator.....	616
7C-1604 Generator.....	617
7C-1605 Generator.....	618
7C-1606 Generator.....	619
7C-1607 Generator.....	620
7C-1608 Generator.....	621
7C-1609 Generator.....	622
7C-1610 Generator.....	623
7C-1611 Generator.....	624
7C-1612 Generator.....	625
7C-1613 Generator.....	626
7C-1614 Generator.....	627
7C-2269 Generator.....	628
7C-2312 Generator.....	629
7C-2617 Generator.....	630
7C-2618 Generator.....	631
7C-2619 Generator.....	632
7C-2620 Generator.....	633
7C-2621 Generator.....	634
7C-2623 Generator.....	635
7C-3484 Generator.....	636
7C-3537 Generator.....	637
7C-3538 Generator.....	638
7C-3539 Generator.....	639
7C-3540 Generator.....	640
7C-3541 Generator.....	641
7C-3542 Generator.....	642
7C-4118 Generator.....	643
7C-4121 Generator.....	644
7C-4913 Generator.....	645
7C-5094 Generator.....	646
7C-7149 Generator.....	647
7C-7151 Generator.....	648
7C-7537 Generator.....	649
7C-8892 Generator.....	650
7C-8893 Generator.....	651
7C-9126 Generator.....	652

Winding Data for 7E-0097 Generator through

7E-9695 Generator	653
7E-0097 Generator.....	653
7E-0098 Generator.....	654
7E-1243 Generator.....	655
7E-5425 Generator.....	656
7E-9695 Generator.....	657

Winding Data for 7W-1877 Generator through

7W-8825 Generator	658
7W-1877 Generator.....	658
7W-3037 Generator.....	659
7W-4367 Generator.....	660
7W-4369 Generator.....	661
7W-4371 Generator.....	662
7W-4373 Generator.....	663
7W-7521 Generator.....	664
7W-7963 Generator.....	665
7W-8671 Generator.....	666
7W-8672 Generator.....	667
7W-8673 Generator.....	668
7W-8674 Generator.....	669
7W-8675 Generator.....	670
7W-8676 Generator.....	671
7W-8677 Generator.....	672
7W-8678 Generator.....	673
7W-8679 Generator.....	674
7W-8680 Generator.....	675
7W-8681 Generator.....	676
7W-8682 Generator.....	677
7W-8685 Generator.....	678
7W-8686 Generator.....	679
7W-8687 Generator.....	680
7W-8688 Generator.....	681
7W-8690 Generator.....	682
7W-8691 Generator.....	683
7W-8692 Generator.....	684
7W-8693 Generator.....	685
7W-8695 Generator.....	686
7W-8696 Generator.....	687
7W-8697 Generator.....	688
7W-8698 Generator.....	689
7W-8699 Generator.....	690
7W-8700 Generator.....	691
7W-8701 Generator.....	692
7W-8702 Generator.....	693
7W-8703 Generator.....	694
7W-8704 Generator.....	695
7W-8743 Generator.....	696
7W-8744 Generator.....	697
7W-8824 Generator.....	698
7W-8825 Generator.....	699

Winding Data for 9Y-0157 Generator through

9Y-0389 Generator	700
9Y-0157 Generator.....	700
9Y-0159 Generator.....	701
9Y-0161 Generator.....	702
9Y-0163 Generator.....	703
9Y-0165 Generator.....	704
9Y-0167 Generator.....	705
9Y-0169 Generator.....	706
9Y-0353 Generator.....	707
9Y-0356 Generator.....	708
9Y-0363 Generator.....	709
9Y-0364 Generator.....	710
9Y-0365 Generator.....	711
9Y-0367 Generator.....	712
9Y-0368 Generator.....	713
9Y-0373 Generator.....	714
9Y-0374 Generator.....	715
9Y-0375 Generator.....	716
9Y-0377 Generator.....	717
9Y-0378 Generator.....	718
9Y-0379 Generator.....	719
9Y-0382 Generator.....	720
9Y-0383 Generator.....	721
9Y-0384 Generator.....	722
9Y-0385 Generator.....	723
9Y-0386 Generator.....	724
9Y-0389 Generator.....	725

Winding Data for 9Y-0390 Generator through

9Y-0533 Generator	726
9Y-0390 Generator.....	726
9Y-0391 Generator.....	727
9Y-0392 Generator.....	728
9Y-0393 Generator.....	729
9Y-0394 Generator.....	730
9Y-0396 Generator.....	731
9Y-0398 Generator.....	732
9Y-0400 Generator.....	733
9Y-0452 Generator.....	734
9Y-0454 Generator.....	735
9Y-0456 Generator.....	736
9Y-0459 Generator.....	737
9Y-0461 Generator.....	738
9Y-0463 Generator.....	739
9Y-0513 Generator.....	740
9Y-0516 Generator.....	741
9Y-0519 Generator.....	742
9Y-0521 Generator.....	743
9Y-0523 Generator.....	744
9Y-0525 Generator.....	745
9Y-0527 Generator.....	746
9Y-0529 Generator.....	747
9Y-0531 Generator.....	748
9Y-0533 Generator.....	749

Winding Data for 9Y - 1408 Generator through

9Y - 9422 Generator	750
9Y - 1408 Generator.....	750
9Y - 1412 Generator.....	751
9Y - 1423 Generator.....	752
9Y - 1425 Generator.....	753
9Y - 1427 Generator.....	754
9Y - 1428 Generator.....	755
9Y - 1429 Generator.....	756
9Y - 1430 Generator.....	757
9Y - 1431 Generator.....	758
9Y - 2934 Generator.....	759
9Y - 2935 Generator.....	760
9Y - 3872 Generator.....	761
9Y - 3873 Generator.....	762
9Y - 3876 Generator.....	763
9Y - 7180 Generator.....	764
9Y - 9374 Generator.....	765
9Y - 9375 Generator.....	766
9Y - 9416 Generator.....	767
9Y - 9417 Generator.....	768
9Y - 9418 Generator.....	769
9Y - 9419 Generator.....	770
9Y - 9421 Generator.....	771
9Y - 9422 Generator.....	772