



**MARATHON ELECTRIC
SYNCHRONOUS AC GENERATOR
TYPICAL SUBMITTAL DATA**

Basic Model 363CSL1607

Date: 4-27-05

kW (kVA)	1800 RPM		60 Hertz		12 Leads				
	3 Phase		0.8 Power Factor		Dripproof or Open Enclosure				
	Class B		Class F			Class H			
Voltage*	80° C ① Continuous	90° C ① Lloyds	95° C ① ABS	105° C † British Standard	105° C ① Continuous	130° C ① Standby	125° C † British Standard	125° C ① Continuous	150° C ① Standby
240/480	110 (138)	115 (144)	115 (144)	125 (156)	125 (156)	135 (169)	135 (169)	135 (169)	150 (188)
230/460	110 (138)	115 (144)	115 (144)	125 (156)	125 (156)	135 (169)	135 (169)	135 (169)	150 (188)
220/440	105 (131)	110 (138)	110 (138)	115 (144)	115 (144)	130 (163)	130 (163)	130 (163)	140 (175)
208/416	100 (125)	105 (131)	105 (131)	110 (138)	110 (138)	125 (156)	125 (156)	125 (156)	135 (169)
190/380	90 (113)	95 (118)	95 (118)	100 (125)	100 (125)	115 (144)	115 (144)	115 (144)	125 (156)

① Rise by resistance method, Mil-Std-705, Method 680.1b.

† Rating per BS 5000.

Submittal Data: 480 Volts, 156 kVA, 1800 RPM, 60 Hz, 3 Phase					
Mil-Std-705B			Mil-Std-705B		
Method	Description	Value	Method	Description	Value
301.1b	Insulation Resistance	> 1.5 Meg	505.3b	Overspeed	2250 RPM
302.1a	High Potential Test		507.1c	Phase Sequence CCW-ODE	ABC
	Main Stator	2000 Volts	601.4a	L-L Harmonic Maximum - Total (Distortion Factor)	3.5%
	Main Rotor	1500 Volts	601.4a	L-L Harmonic Maximum - Single	2.5%
	Exciter Stator	1500 Volts	601.1c	Deviation Factor	7.0%
	Exciter Rotor	1500 Volts	---	TIF (1960 Weightings)	<50
401.1a	Stator Resistance, Line to Line High Wye Connection	0.0692 Ohms	Additional Prototype Mil-Std Methods are Available on Request.		
	Rotor Resistance	1.365 Ohms	--	Generator Frame	360
	Exciter Stator	23.5 Ohms	--	Type	Ext. Voltage Regulated, Brushless
	Exciter Rotor	0.12 Ohms	--	Insulation	Class H
410.1a	No Load Exciter Field Amps at 480 Volts Line to Line	0.52 A DC	--	Coupling - Single Bearing	Flexible
420.1a	Short Circuit Ratio	0.525	--	Amortisseur Windings	Full
421.1a	Xd Synchronous Reactance	2.225 pu	--	Cooling Air Volume	700 CFM
422.1a	X2 Negative Sequence Reactance	0.1 pu	--	Exciter	Rotating
423.1a	X0 Zero Sequence Reactance	0.031 pu	--	Voltage Regulator	SE350
425.1a	X'd Transient Reactance	0.14 pu	--	Voltage Regulation	1%
426.1a	X''d Subtransient Reactance	0.1 pu			
427.1a	T'd Transient Short Circuit Time Constant	0.06 sec.			
428.1a	T''d Subtransient Short Circuit Time Constant	0.008 sec.			
430.1a	T'do Transient Open Circuit Time Constant	0.8 sec.			
432.1a	Ta Short Circuit Time Constant of Armature Winding	0.02 sec.			

* Voltage refers to wye (star) connection, unless otherwise specified.

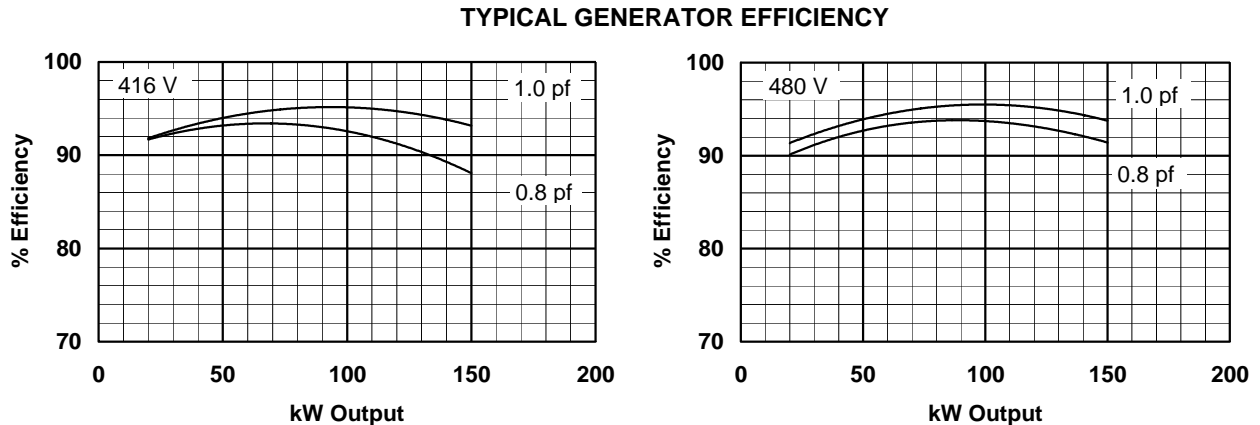
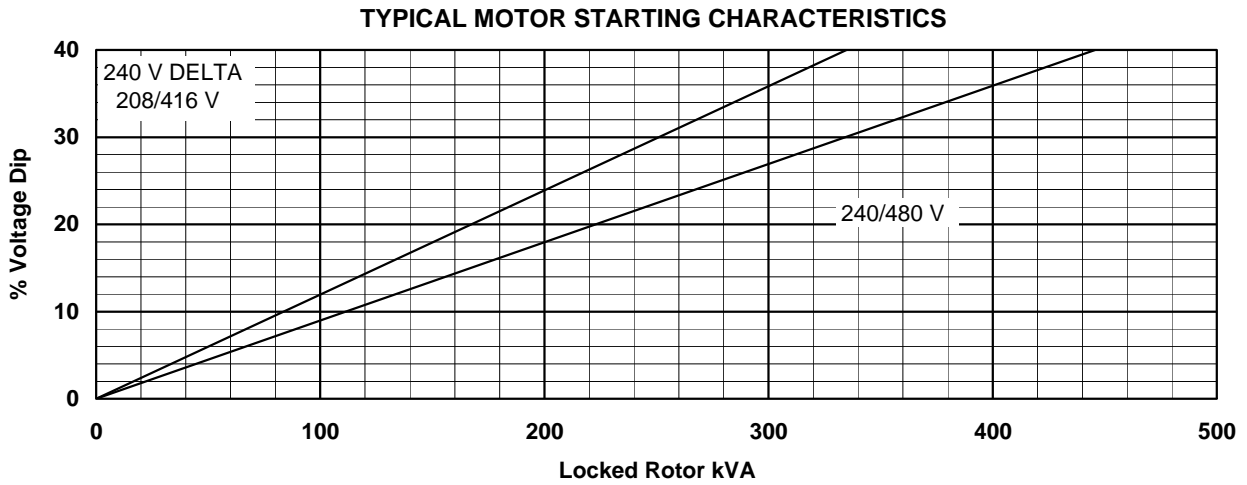
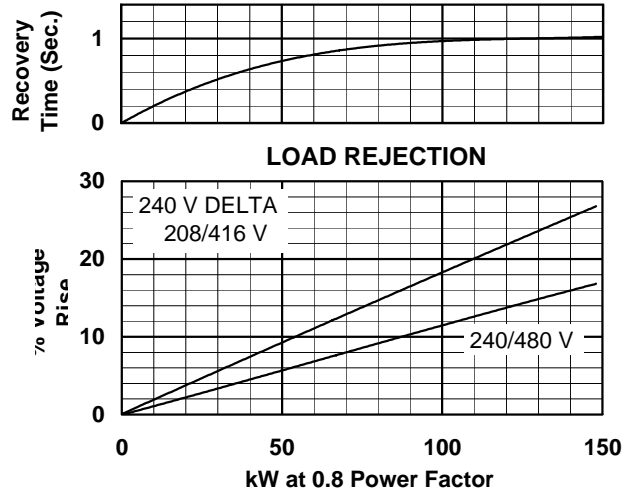
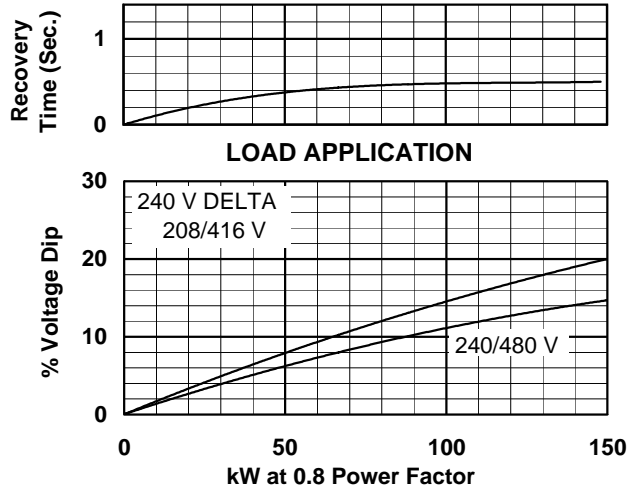


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TYPICAL DYNAMIC CHARACTERISTICS**

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Date: 4-27-05

60 HERTZ



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