TAYLOR POWER SYSTEMS®

MARATHON ELECTRIC
SYNCHRONOUS AC GENERATOR
TYPICAL SUBMITTAL DATA

Basic Model: 361CSL1612 **Date: 11/14/2007**

Kilowatt ratings at	**1800** RPM	**60** Hertz					**4** Leads		
kW (kVA)		**1** Phase		**Dripproof or Open** Enclosure					
	Class B	**Class F**					**Class H**		
P.F. Volts	**80º C ① Continuous**	**90º C ① Lloyds**	**95º C ① ABS**	**105º C ② British Standard**	**105º C ① Continuous**	**130º C ① Standby**	**125º C ② British Standard**	**125º C ① Continuous**	**150º C ① Standby**
1.0 120V or 120/240V	40 (40)	42 (36)	42 (42)	45 (45)	45 (45)	50 (50)	50 (50)	50 (50)	55 (55)
0.8 120V or 120/240V	28 (35)	30 (37.5)	30 (37.5)	33 (41.3)	33 (41.3)	36 (45)	36 (45)	36 (45)	40 (50)

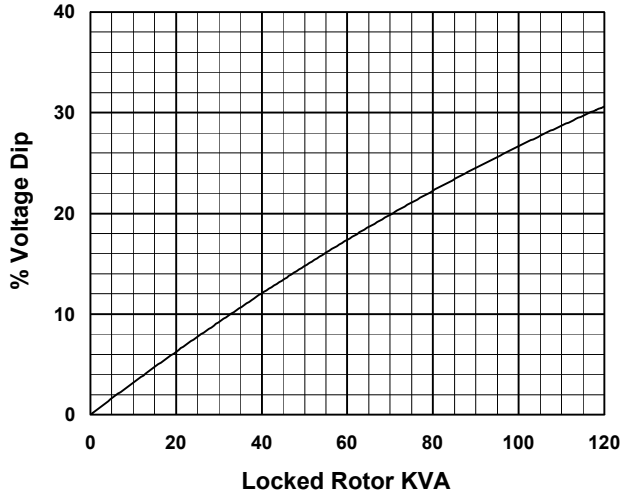
① *Rise by resistance method, Mil-Std-705, Method 680.1b.* ② *Rating per BS 5000.*

Submittal Data: 240 Volts, 1800 RPM, 60Hz, 1 Phase

Mil-Std-705B Method	Description	Value
301.1b	Insulation Resistance	> 1.5 Meg
302.1a	High Potential Test	
	Main Stator	1500 volts
	Main Rotor	1500 volts
	Exciter Stator	1500 volts
	Exciter Rotor	1500 volts
401.1a	Stator Resistance, Line to Line	
	High Wye Connection	0.0445 Ohms
	Rotor Resistance	0.857 Ohms
	Exciter Stator	18.7 Ohms
	Exciter Rotor	.0992 Ohms
410.1a	No Load Exciter Field Amps	
	at 240 Volts Line to Line	0.66 A DC

Mil-Std-705B Method	Description	Value
505.3b	Overspeed	2250 RPM
601.4a	L-L Harmonic Maximum - Total (Distortion Factor)	5.0%
601.4a	L-L Harmonic Maximum - Single	5.0%
601.1c	Deviation Factor Maximum	6.0%
--	Type	Ext. Voltage Regulated, Brushless
----	Insulation	Class H
----	Coupling - Single Bearing	Flexible
----	Amortisseur Windings	Full
----	Cooling Air Volume	700 CFM
----	Exciter	Rotating
----	Voltage Regulator	SE350
----	Voltage Regulation	1%

TYPICAL MOTOR STARTING CHARACTERISTICS



TYPICAL GENERATOR EFFICIENCY