

MARATHON ELECTRIC GENERATORS

Basic Model 284CSL1542

Test Report No. SH1542

Date: 10/4/02

SINGLE PHASE TYPICAL SUBMITTAL DATA

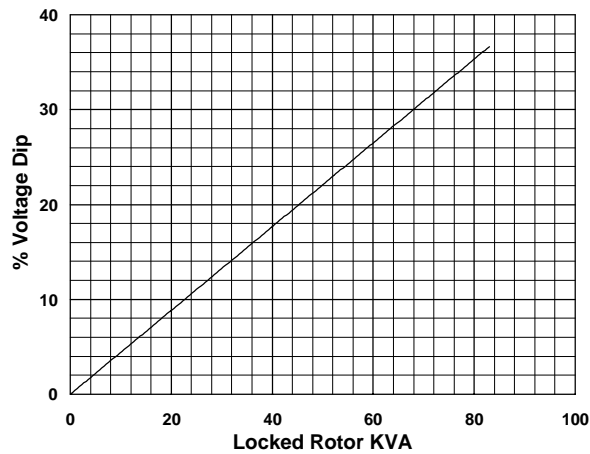
Kilowatt ratings at		1800 RPM			60 Hertz			12 Leads	
kW (kVA)		1 Phase			Dripproof or Open Enclosure				
P.F. Volts	Class B	Class F					Class H		
	80° C ① Continuous	90° C ① Lloyds	95° C ① ABS	105° C † British Standard	105° C ① Continuous	130° C ① Standby	125° C † British Standard	125° C ① Continuous	150° C ① Standby
0.8 120V 120/240V	20 (25)	20.5 (25.6)	21 (26.3)	23 (28.8)	23 (28.8)	24 (30)	24 (30)	26 (32.5)	27 (33.8)
1.0 120V 120/240V	26 (26)	26.5 (26.5)	27 (27)	29 (29)	29 (29)	32 (32)	32 (32)	32 (32)	33 (33)

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

† Rating per BS 5000.

Submittal Data: 240 Volts, 1800 RPM, 60 Hz, 1 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		601.4a	L-L Harmonic Maximum - Total (Distortion Factor)	8.0%
	Main Stator	1500 volts	601.4a	L-L Harmonic Maximum - Single	7.0%
	Main Rotor	1500 volts	601.1c	Deviation Factor	8.0%
	Exciter Stator	1500 volts	--	Type	Ext. Voltage Regulated, Brushless
	Exciter Rotor	1500 volts	----	Insulation	Class H
401.1a	Stator Resistance, Line to Line High Wye Connection	0.273 Ohms	----	Coupling - Single Bearing	Flexible
	Rotor Resistance	1.63 Ohms	----	Amortisseur Windings	Full
	Exciter Stator	18 Ohms	----	Cooling Air Volume	250 CFM
	Exciter Rotor	0.139 Ohms	----	Exciter	Rotating
410.1a	No Load Exciter Field Amps at 240 Volts Line to Line	0.46 A DC	----	Voltage Regulator	SE350
			----	Voltage Regulation	1%

TYPICAL MOTOR STARTING CHARACTERISTICS



TYPICAL GENERATOR EFFICIENCY

