



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

Basic Model: **284PSL1742**

Winding: **WC1742**

Date: **7/1/04**

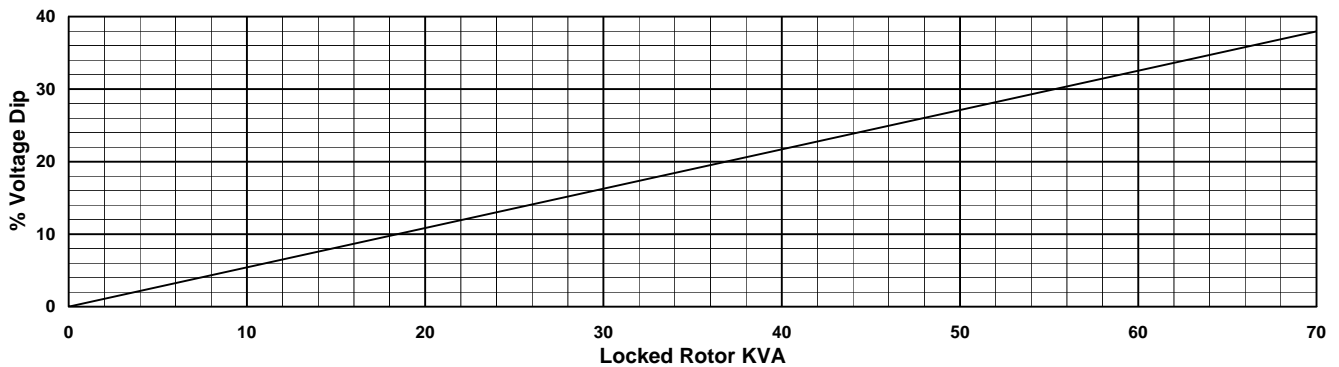
Kilowatt ratings at		1800 RPM		60 Hertz		12 Leads			
kW (kVA)		1 Phase				Dripproof or Open Enclosure			
Voltage at - p.f.	Class B	Class F					Class H		
	80° C Ⓞ Continuous	90° C Ⓞ Lloyds	95° C Ⓞ ABS	105° C Ⓞ British Standard	105° C Ⓞ Continuous	130° C Ⓞ Standby	125° C Ⓞ British Standard	125° C Ⓞ Continuous	150° C Ⓞ Standby
480/240 - 1.0	25.0 (25.0)	26.0 (26.0)	26.0 (26.0)	30.0 (30.0)	30.0 (30.0)	32.0 (32.0)	32.0 (32.0)	32.0 (32.0)	35.0 (35.0)
480/240 - 0.8	20.0 (25.0)	21.0 (26.3)	21.0 (26.3)	23.0 (28.8)	23.0 (28.8)	25.0 (31.3)	25.0 (31.3)	25.0 (31.3)	27.0 (33.8)
440/220 - 1.0	23.0 (23.0)	24.0 (24.0)	24.0 (24.0)	28.0 (28.0)	28.0 (28.0)	30.0 (30.0)	30.0 (30.0)	30.0 (30.0)	32.0 (32.0)
440/220 - 0.8	18.0 (22.5)	19.0 (23.8)	19.0 (23.8)	21.0 (26.3)	21.0 (26.3)	23.0 (28.8)	23.0 (28.8)	23.0 (28.8)	25.0 (31.3)

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

Ⓞ Rating per BS 5000.

Submittal Data: 240 Volts, 1800 RPM, 60Hz, 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)	<5%
	Main Stator	2000 volts	601.4a	L-L Harmonic Maximum - Single	<5%
	Main Rotor	1500 volts		Type	Ext. Voltage Regulated, Brushless
	Exciter Stator	1500 volts		Insulation	Class H
	Exciter Rotor	1500 volts		Coupling - Single Bearing	Flexible
401.1a	Stator Resistance, Line to Line			Amortisseur Windings	Full
	Low-Zigzag: 0.09 Ohms	Hi-Zigzag: 0.36 Ohms		Cooling Air Volume	250 CFM
	Rotor Resistance	0.55 Ohms		Exciter	Rotating
	Exciter Stator	17.5 Ohms		Voltage Regulator	SE350
	Exciter Rotor	0.12 Ohms		Voltage Regulation	1%
410.1a	No Load Exciter Field Amps at 240 Volts Line to Line	0.50 A DC			

TYPICAL MOTOR STARTING CHARACTERISTICS



TYPICAL GENERATOR EFFICIENCY

