

# MARATHON ELECTRIC GENERATORS TYPICAL SUBMITTAL DATA

Section 3650

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MODEL : 281PSL1502  
BASE MODEL : 281PSL1502

Winding WC- 1502S

10/31/2001

Kilowatt ratings at kW (kVA)	1800 RPM		60 Hertz			12 LEADS		Single phase connection Dripproof or Open Enclosure		
	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	7 (7)	7.5 (7.5)	7.7 (7.7)	7.8 (7.8)	8 (8)	8.6 (8.6)	8.2 (8.2)	8.5 (8.5)	9 (9)	
480/240-8	5.2 (6.5)	5.5 (6.9)	5.6 (7)	5.7 (7.1)	6 (7.5)	6.3 (7.9)	6 (7.5)	6.2 (7.8)	6.6 (8.3)	
440/220-1	6.2 (6.2)	6.6 (6.6)	6.8 (6.8)	7 (7)	7 (7)	7.5 (7.5)	7.5 (7.5)	7.5 (7.5)	7.9 (7.9)	
440/220-8	4.6 (5.8)	4.8 (6)	4.9 (6.1)	5.3 (6.6)	5.3 (6.6)	5.5 (6.9)	5.5 (6.9)	5.5 (6.9)	5.8 (7.3)	

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

British Standard Rating per BS 5000

Submittal Data: 240 Volts*, 6 kW, 7.5 kVA, 0.8 P.F., 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	2000 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	MAGNAPLUS
	Exciter Rotor	1500 Volts	--	Insulation	Class H
401.1a	Stator resistance - Line to Line Low-Zigzag = 1.2 Ohms, Hi-Zigzag = 4.8 Ohms		--	Coupling - Single Bearing	Flexible
	Rotor Resistance	0.439 Ohms	--	Amortisseur Windings	Full
	Exciter Stator	23 Ohms	--	Exciter	Rotating
	Exciter Rotor	0.12 Ohms	--	Voltage Regulator	SE350
410.1a	No Load Exciter Field Amps at 120/240 Volts Line to Line	0.39 A DC	--	Voltage Regulation	1.00%
			--	Cooling Air Volume	250 CFM

