

# MARATHON ELECTRIC GENERATORS TYPICAL SUBMITTAL DATA

Section 3650

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MODEL : 281PSL1500  
BASE MODEL : 281PSL1500

Winding WC- 1500S

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	5 (5)	5.2 (5.2)	5.3 (5.3)	5.2 (5.2)	5.5 (5.5)	5.8 (5.8)	5.5 (5.5)	5.7 (5.7)	6 (6)	
480/240-8	3.2 (4)	3.3 (4.1)	3.4 (4.3)	3.5 (4.4)	3.6 (4.5)	3.8 (4.8)	3.6 (4.5)	3.8 (4.8)	4 (5)	
440/220-1	5 (5)	5.2 (5.2)	5.3 (5.3)	5.5 (5.5)	5.5 (5.5)	5.7 (5.7)	5.7 (5.7)	5.7 (5.7)	6 (6)	
440/220-8	3.2 (4)	3.3 (4.1)	3.4 (4.3)	3.6 (4.5)	3.6 (4.5)	3.8 (4.8)	3.8 (4.8)	3.8 (4.8)	4 (5)	

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

British Standard Rating per BS 5000

Submittal Data: 240 Volts*, 3.6 kW, 4.5 kVA, 0.8 P.F., 1800 RPM, 60 Hz, 1 Phase			Submittal Data: 240 Volts*, 3.6 kW, 4.5 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 = 1.575 Ohms, Hi-Zigzag = 6.3 Ohms		--	Coupling - Single Bearing	Flexible
	Rotor Resistance	0.4 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	0.48 A DC	--	Voltage Regulation	1.00%
			--	Cooling Air Volume	250 CFM

