

MARATHON ELECTRIC GENERATORS TYPICAL SUBMITTAL DATA

Section 3650

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MODEL : 281PSL1501
BASE MODEL : 281PSL1501

Winding WC- 1501S

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	6.2 (6.2)	6.5 (6.5)	6.6 (6.6)	6.6 (6.6)	6.8 (6.8)	7.2 (7.2)	6.8 (6.8)	7.1 (7.1)	7.5 (7.5)	
480/240-8	4 (5)	4.1 (5.1)	4.3 (5.4)	4.4 (5.5)	4.5 (5.6)	4.8 (6)	4.6 (5.8)	4.8 (6)	5 (6.3)	
440/220-1	6 (6)	6.3 (6.3)	6.4 (6.4)	6.6 (6.6)	6.6 (6.6)	6.9 (6.9)	6.9 (6.9)	6.9 (6.9)	7.3 (7.3)	
440/220-8	4 (5)	4.1 (5.1)	4.3 (5.4)	4.5 (5.6)	4.5 (5.6)	4.8 (6)	4.8 (6)	4.8 (6)	5 (6.3)	

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

British Standard Rating per BS 5000

Submittal Data: 240 Volts*, 4.48 kW, 5.6 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		--	Coupling - Single Bearing	Flexible
	Low-Zigzag = 1.556 Ohms, Hi-Zigzag =	6.224 Ohms	--	Amortisseur Windings	Full
	Rotor Resistance	0.401 Ohms	--	Exciter	Rotating
	Exciter Stator	23 Ohms	--	Voltage Regulator	SE350
	Exciter Rotor	0.12 Ohms	--	Voltage Regulation	1.00%
410.1a	No Load Exciter Field Amps at 120/240 Volts Line to Line	0.48 A DC	--	Cooling Air Volume	250 CFM

