

# MARATHON ELECTRIC GENERATORS TYPICAL SUBMITTAL DATA

Section 3650

Page 8

MODEL : 283PSL1507  
BASE MODEL : 283PSL1507

Winding WC- 1507S

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 Ø Continuous	90° C Ø Lloyds	95° C Ø ABS	105° C British Standard	105° C Continuous	130° C Ø Standby	125° C British Standard	125° C Continuous	150° C Ø Standby	
480/240-1	16 (16)	16.5 (16.5)	17 (17)	18 (18)	18 (18)	20 (20)	19.5 (19.5)	20 (20)	21.5 (21.5)	
480/240-8	12.5 (15.6)	13 (16.3)	13.5 (16.9)	13.5 (16.9)	14 (17.5)	15 (18.8)	14.5 (18.1)	15 (18.8)	16 (20)	
440/220-1	15 (15)	15.5 (15.5)	16 (16)	16.5 (16.5)	16.5 (16.5)	18 (18)	18 (18)	18 (18)	19.5 (19.5)	
440/220-8	11.5 (14.4)	12 (15)	12.5 (15.6)	13 (16.3)	13 (16.3)	14 (17.5)	14 (17.5)	14 (17.5)	15 (18.8)	

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

British Standard Rating per BS 5000

Submittal Data: 240 Volts\*, 17.04 kW, 21.3 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 = 0.18 Ohms, Hi-Zigzag = 0.72 Ohms		--	Coupling - Single Bearing	Flexible
	Rotor Resistance	0.758 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	0.52 A DC	--	Voltage Regulation	1.00%
			--	Cooling Air Volume	250 CFM

