

MARATHON ELECTRIC GENERATORS TYPICAL SUBMITTAL DATA

Section 3650

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MODEL : 431PSL6202
BASE MODEL : 431PSL6202

Winding WC- 1900S

11/01/2001

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	96 (96)	104 (104)	104 (104)	113 (113)	115 (115)	121 (121)	113 (113)	120 (120)	125 (125)	
480/240-8	77 (96.3)	79 (98.8)	79 (98.8)	90 (113)	90 (113)	96 (120)	90 (113)	95 (119)	100 (125)	
440/220-1	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
440/220-8	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	

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

British Standard Rating per BS 5000

Submittal Data: 480 Volts*, 100 kW, 125 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)	5.0%
	Main Stator	2000 Volts	601.4a	L-L Harmonic Maximum - Single	5.0%
	Main Rotor	1500 Volts	601.1c	Deviation Factor	6.0%
	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 = 0.0269 Ohms, Hi-Zigzag =	0.1076 Ohms	--	Amortisseur Windings	Full
	Rotor Resistance	0.598 Ohms	--	Exciter	Rotating
	Exciter Stator	18.5 Ohms	--	Voltage Regulator	SE350
	Exciter Rotor	0.116 Ohms	--	Voltage Regulation	1.00%
410.1a	No Load Exciter Field Amps at 240/480 Volts Line to Line	0.6 A DC	--	Cooling Air Volume	1280 CFM

