

MARATHON ELECTRIC GENERATORS TYPICAL SUBMITTAL DATA

Section 0

Page

MODEL : 431PSL6224
BASE MODEL : 431PSL6224

Winding H-SG 430628

11/01/2001

Kilowatt ratings at kW (kVA)	1500 RPM		50 Hertz			4 LEADS		Dedicated single phase Drip-proof 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
220-1	100 (100)	105 (105)	105 (105)	115 (115)	115 (115)	125 (125)	125 (125)	125 (125)	135 (135)
220-8	55 (68.8)	60 (75)	60 (75)	65 (81.3)	65 (81.3)	70 (87.5)	70 (87.5)	70 (87.5)	76 (95)
200-1	100 (100)	105 (105)	105 (105)	115 (115)	115 (115)	125 (125)	125 (125)	125 (125)	135 (135)
200-8	65 (81.3)	70 (87.5)	70 (87.5)	75 (93.8)	75 (93.8)	75 (93.8)	75 (93.8)	75 (93.8)	85 (106)

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

British Standard Rating per BS 5000

Submittal Data: 220 Volts*, 108 kW, 135 kVA, 0.8 P.F., 1500 RPM, 50 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	1875 RPM
302.1a	High Potential Test		601.4a	L-L Harmonic Maximum - Total (Distortion Factor)	5.0%
	Main Stator	1500 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
	Dedicated connection	0.0129 Ohms	--	Amortisseur Windings	Full
	Rotor Resistance	0.615 Ohms	--	Exciter	Rotating
	Exciter Stator	18 Ohms	--	Voltage Regulator	SE350
	Exciter Rotor	0.105 Ohms	--	Voltage Regulation	1.00%
410.1a	No Load Exciter Field Amps at 220 Volts Line to Line	0.6 A DC	--	Cooling Air Volume	870 CFM

