

MARATHON ELECTRIC GENERATORS TYPICAL SUBMITTAL DATA

Section

Page 0

MODEL : 431PSL6222
BASE MODEL : 431PSL6222

Winding H-SG 430625

11/01/2001

Kilowatt ratings at kW (kVA)	1800 RPM		60 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
240-1	100 (100)	105 (105)	105 (105)	110 (110)	110 (110)	115 (115)	115 (115)	115 (115)	125 (125)
240-8	60 (75)	63 (78.8)	63 (78.8)	68 (85)	68 (85)	73 (91.3)	73 (91.3)	73 (91.3)	78 (97.5)
220-1	90 (90)	95 (95)	95 (95)	100 (100)	100 (100)	110 (110)	110 (110)	110 (110)	115 (115)
220-8	62 (77.5)	65 (81.3)	65 (81.3)	70 (87.5)	70 (87.5)	75 (93.8)	75 (93.8)	75 (93.8)	80 (100)

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

British Standard Rating per BS 5000

Submittal Data: 240 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	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	0.0248 Ohms	--	Amortisseur Windings	Full
	Rotor Resistance	0.516 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 240 Volts Line to Line	0.55 A DC	--	Cooling Air Volume	1100 CFM

