

MARATHON ELECTRIC GENERATORS TYPICAL SUBMITTAL DATA

Section 6100

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MODEL : 431RSL4007
BASE MODEL : 431RSL4007

Winding H-SG 430048S

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	103 (103)	113 (113)	115 (115)	121 (121)	121 (121)	129 (129)	124 (124)	129 (129)	136 (136)	
480/240-8	82 (103)	90 (113)	92 (115)	97 (121)	97 (121)	103 (129)	99 (124)	103 (129)	109 (136)	
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*, 96.8 kW, 121 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	MAGNAMAXDVR
	Exciter Rotor	1500 Volts	--	Insulation	Class H
401.1a	Stator resistance - Line to Line		--	Coupling - Single Bearing	Flexible
	Low-Zigzag = 0.0024 Ohms, Hi-Zigzag =	0.0096 Ohms	--	Amortisseur Windings	Full
	Rotor Resistance	0.173 Ohms	--	Exciter	Rotating
	Exciter Stator	22.5 Ohms	--	Voltage Regulator	DVR2000
	Exciter Rotor	0.022 Ohms	--	Voltage Regulation	0.25%
410.1a	No Load Exciter Field Amps at 240/480 Volts Line to Line	0.63 A DC	--	Cooling Air Volume	1150 CFM

