MARATHON ELECTRIC GENERATORS

TYPICAL SUBMITTAL DATA

MODEL : 431RSL4005
BASE MODEL : 431RSL4005 **Winding H-SG 430049S** **11/01/2001**

Kilowatt ratings at kW (kVA)	1500 RPM		50 Hertz		12 LEADS	Single phase connection Dripproof or Open Enclosure		
	Class B	Class F				Class H		
Voltage at - pf	80° C ① Continuous	90° C ① Lloyds	95° C ① ABS	105° C British Standard	105° C Continuous	130° C ① Standby	125° C British Standard	125° C Continuous	150° C ① Standby
440/220-1	62 (62)	65 (65)	68 (68)	70 (70)	70 (70)	75 (75)	75 (75)	74 (74)	77 (77)
440/220-.8	49 (61.3)	52 (65)	54 (67.5)	56 (70)	56 (70)	60 (75)	56 (70)	59 (73.8)	61 (76.3)
400/200-1	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
400/200-.8	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

①Rise by resistance method, Mil-Std-705, Method 680.1b. *British Standard Rating per BS 5000*

Submittal Data: 440 Volts*, 56 kW, 70 kVA, 0.8 P.F., 1500 RPM, 50 Hz, 1 Phase

Mil-Std-705B Method	Description	Value
301.1b	Insulation Resistance	>1.5 Meg
302.1a	High Potential Test	
	Main Stator	2000 Volts
	Main Rotor	1500 Volts
	Exciter Stator	1500 Volts
	Exciter Rotor	1500 Volts
401.1a	Stator resistance - Line to Line	
	Low-Zigzag = 0.0032 Ohms, Hi-Zigzag =	0.0128 Ohms
	Rotor Resistance	0.153 Ohms
	Exciter Stator	22.5 Ohms
	Exciter Rotor	0.022 Ohms
410.1a	No Load Exciter Field Amps at 220/440 Volts Line to Line	#VALUE!

Mil-Std-705B Method	Description	Value
505.3b	Overspeed	1875 RPM
601.4a	L-L Harmonic Maximum - Total (Distortion Factor)	5.0%
601.4a	L-L Harmonic Maximum - Single	5.0%
601.1c	Deviation Factor	6.0%
--	Type	MAGNAMAXDVR
--	Insulation	Class H
--	Coupling - Single Bearing	Flexible
--	Amortisseur Windings	Full
--	Exciter	Rotating
--	Voltage Regulator	DVR2000
--	Voltage Regulation	0.25%
	Cooling Air Volume	970 CFM