

TYPICAL SUBMITTAL DATA

MODEL : 580MSL0889

BASE MODEL: 580MSL0889

Winding WC- 889

12/14/2000

Submittal Data: 480 Volts*, 124.96 kW, 156.2 kVA, 0.8 P.F., 1800 RPM, 60 Hz, 3 Phase

Kilowatt ratings at		1800 RPM	60 Hertz			10 LEADS	Standard 3 phase		
kW (kVA)		3 Phase			0.8 Power Factor		Dripproof or Open Enclosure		
Voltage*	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	125 (156)	125 (156)	125 (156)	125 (156)	125 (156)	125 (156)	125 (156)	125 (156)	

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

British Standard Rating per BS 5000

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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		507.1c	Phase Sequence CCW-ODE	ABC
	Main Stator	2000 Volts	508.1c	Voltage Balance, L-L or L-N	0.20%
	Main Rotor	1500 Volts	601.4a	L-L Harmonic Maximum - Total (Distortion Factor)	@NA
	Exciter Stator	1500 Volts	601.4a	L-L Harmonic Maximum - Single	@NA
	Exciter Rotor	1500 Volts	601.1c	Deviation Factor	@NA
	PMG Stator	NS**	---	TIF (1960 Weightings)	< @NA
401.1a	Stator Resistance, Line to Line High Wye Connection	0.0332 Ohms	652.1a	Shaft Current	< 0.1 ma
	Rotor Resistance	0.44 Ohms		Main Stator Capacitance to Ground	@NA mfd
	Exciter Stator			Additional Prototype Mil-Std Methods are Available on Request.	
	Exciter Rotor	0.125 Ohms	--	Generator Frame	580
	PMG Stator	NS**	--	Type	LIMA MAC
410.1a	No Load Exciter Field Amps at 240/480 Volts Line to Line		--	Insulation	Class F
420.1a	Short Circuit Ratio	0.823	--	Coupling - Single Bearing	Flexible
421.1a	Xd Synchronous Reactance	1.51 p.u.	--	Amortisseur Windings	Full
		2.226 ohms	--	Excitation	Ext. Voltage Regulated, Brushless
422.1a	X2 Negative Sequence React.	0.1 pu	--	Voltage Regulator	NONE
		0.147 ohms	--	Voltage Regulation	4.00%
423.1a	X0 Zero Sequence Reactance	0.026 pu			
		0.038 ohms			
425.1a	X'd Transient Reactance	0.141 pu			
		0.208 ohms			
426.1a	X"d Subtransient Reactance	0.098 pu			
		0.144 ohms			
--	Xq Quadrature Synch. React.	Not Available	--	Cooling Air Volume	3675 CFM
427.1a	T'd Transient Short Circuit Time Constant	0.15 sec.	--	Heat rejection rate	573 Btu's/min
428.1a	T"d Subtransient Short Circuit Time Constant	0.035 sec.	--	Full load current	188 amps
430.1a	T'do Transient Open Circuit Time Constant	1.63 sec.	--	Minimum Input hp required	181.0
				Efficiency at rated load :	92.5%
432.1a	Ta Short Circuit Time Constant of Armature Winding	0.008 sec.	--	Full load torque	528 Lb-ft

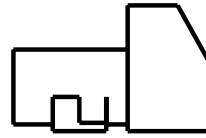
(3) Excitation support system or PMG required to sustain short circuit currents.

* Voltages refer to wye (star) connection, unless otherwise specified.

** Not supplied as standard equipment.

MARATHON ELECTRIC GENERATORS

TYPICAL DYNAMIC CHARACTERISTICS



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