

**TYPICAL SUBMITTAL DATA**

MODEL : 580MSL0891

BASE MODEL: 580MSL0891

Winding WC- 891

12/14/2000

Submittal Data: 480 Volts\*, 174.96 kW, 218.7 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	175 (219)	175 (219)	175 (219)	175 (219)	175 (219)	175 (219)	175 (219)	175 (219)	

ⓄRise 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		652.1a	Shaft Current	< 0.1 ma
	High Wye Connection	0.0128 Ohms		Main Stator Capacitance to Ground	@NA mfd
	Rotor Resistance	0.53 Ohms		<b>Additional Prototype Mil-Std Methods are Available on Request.</b>	
	Exciter Stator		--	Generator Frame	580
	Exciter Rotor	0.125 Ohms	--	Type	LIMA MAC
	PMG Stator	NS**	--	Insulation	Class F
410.1a	No Load Exciter Field Amps at 240/480 Volts Line to Line		--	Coupling - Single Bearing	Flexible
420.1a	Short Circuit Ratio	1.162	--	Amortisseur Windings	Full
421.1a	Xd Synchronous Reactance	1.23 p.u.	--	Excitation	Ext. Voltage Regulated, Brushless
422.1a	X2 Negative Sequence React.	1.296 ohms	--	Voltage Regulator	NONE
423.1a	X0 Zero Sequence Reactance	0.066 pu	--	Voltage Regulation	4.00%
425.1a	X'd Transient Reactance	0.07 ohms	--	Cooling Air Volume	3675 CFM
426.1a	X"d Subtransient Reactance	0.004 pu	--	Heat rejection rate	621 Btu's/min
--	Xq Quadrature Synch. React.	0.004 ohms	--	Full load current	263 amps
427.1a	T'd Transient Short Circuit Time Constant	0.1 pu	--	Minimum Input hp required	249.2
428.1a	T"d Subtransient Short Circuit Time Constant	0.105 ohms	--	Efficiency at rated load :	94.1%
430.1a	T'do Transient Open Circuit Time Constant	0.064 pu	--	Full load torque	727 Lb-ft
432.1a	Ta Short Circuit Time Constant of Armature Winding	0.067 ohms	--		
		Not Available			

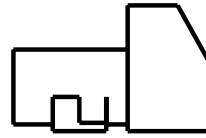
(3) Excitation support system or PMG required to sustain short circuit currents.

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

\*\* Not supplied as standard equipment.

# MARATHON ELECTRIC GENERATORS

## TYPICAL DYNAMIC CHARACTERISTICS



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