



A Subsidiary of Regal-Beloit Corporation

TYPICAL SUBMITTAL DATA

MODEL : 680MSL0893

BASE MODEL: 680MSL0893

Winding WC- 893

12/14/2000

Submittal Data: 480 Volts*, 250 kW, 312.5 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	250 (313)	250 (313)	250 (313)	250 (313)	250 (313)	250 (313)	250 (313)	250 (313)	

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

British Standard Rating per BS 5000

Submittal Data: 480 Volts*, 250 kw, 312.5 kVA, 0.8 P.F., 1800 RPM, 60 Hz, 3 Phase				STD. CONNECTION	
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	0.0064 Ohms	652.1a	Shaft Current	< 0.1 ma
	Rotor Resistance	0.79 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	680
	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	1.223	--	Coupling - Single Bearing	Flexible
421.1a	Xd Synchronous Reactance	1.32 p.u.	--	Amortisseur Windings	Full
422.1a	X2 Negative Sequence React.	0.973 ohms	--	Excitation	Ext. Voltage Regulated, Brushless
423.1a	X0 Zero Sequence Reactance	0.063 pu	--	Voltage Regulator	NONE
425.1a	X'd Transient Reactance	0.046 ohms	--	Voltage Regulation	4.00%
426.1a	X"d Subtransient Reactance	0.007 pu		Cooling Air Volume	5800 CFM
--	Xq Quadrature Synch. React.	0.005 ohms		Heat rejection rate	800 Btu's/min
427.1a	T'd Transient Short Circuit Time Constant	0.103 pu		Full load current	376 amps
428.1a	T"d Subtransient Short Circuit Time Constant	0.062 pu		Minimum Input hp required	354.0
430.1a	T'do Transient Open Circuit Time Constant	0.046 ohms		Efficiency at rated load :	94.7%
432.1a	Ta Short Circuit Time Constant of Armature Winding	Not Available		Full load torque	1033 Lb-ft

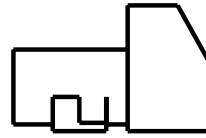
(3) Excitation support system or PMG required to sustain short circuit currents.

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

** Not supplied as standard equipment.

MARATHON ELECTRIC GENERATORS

TYPICAL DYNAMIC CHARACTERISTICS



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