

TAYLOR POWER SYSTEMS

MARATHON ELECTRIC SYNCHRONOUS AC GENERATOR TYPICAL SUBMITTAL DATA

Basic Model: **283PSL1718**

Winding: **WC1718**

Kilowatt ratings at		1800 RPM		60 Hertz			4 Leads		
kW (kVA)		1 Phase					Dripproof or Open Enclosure		
Voltage at - p.f.	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
240 - 1.0	26.0 (26.0)	27.0 (27.0)	27.0 (27.0)	30.0 (30.0)	30.0 (30.0)	32.0 (32.0)	32.0 (32.0)	32.0 (32.0)	35.0 (35.0)
240 - 0.8	17.0 (21.3)	18.0 (22.5)	18.0 (22.5)	20.0 (25.0)	20.0 (25.0)	22.0 (27.5)	22.0 (27.5)	22.0 (27.5)	23.0 (28.8)
220 - 1.0	24.0 (24.0)	25.0 (25.0)	25.0 (25.0)	27.0 (27.0)	27.0 (27.0)	30.0 (30.0)	30.0 (30.0)	30.0 (30.0)	32.0 (32.0)
220 - 0.8	17.0 (21.30)	18.0 (22.5)	18.0 (22.5)	20.0 (25.0)	20.0 (25.0)	22.0 (27.5)	22.0 (27.5)	22.0 (27.5)	23.0 (28.8)

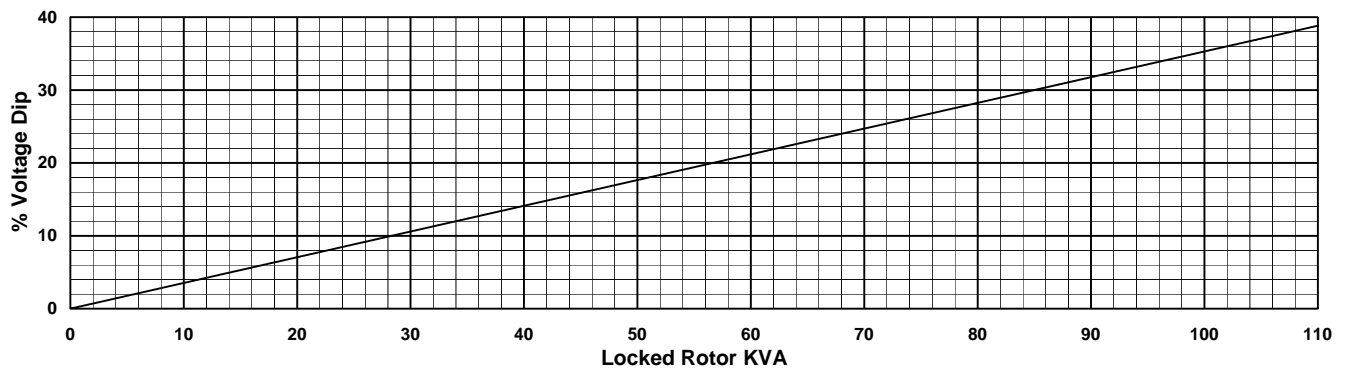
① Rise by resistance method, Mil-Std-705, Method 680.1b.

② Rating per BS 5000.

Submittal Data: 240 Volts, 1800 RPM, 60Hz, 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%
	Main Stator	1500 volts	601.4a	L-L Harmonic Maximum - Single	<5%
	Main Rotor	1500 volts		Type	Ext. Voltage Regulated, Brushless
	Exciter Stator	1500 volts		Insulation	Class H
	Exciter Rotor	1500 volts		Coupling - Single Bearing	Flexible
401.1a	Stator Resistance, Line to Line			Amortisseur Windings	Full
	High Wye Connection	0.07 Ohms		Cooling Air Volume	250 CFM
	Rotor Resistance	0.46 Ohms		Exciter	Rotating
	Exciter Stator	17.5 Ohms		Voltage Regulator	SE350
	Exciter Rotor	0.12 Ohms		Voltage Regulation	1%
410.1a	No Load Exciter Field Amps at 240 Volts Line to Line	0.57 A DC			

TYPICAL MOTOR STARTING CHARACTERISTICS



TYPICAL GENERATOR EFFICIENCY

