

TAYLOR

POWER SYSTEMS

MARATHON ELECTRIC DEDICATED SINGLE PHASE TYPICAL SUBMITTAL DATA

Basic Model 284CSL1518

Kilowatt ratings at		1800 RPM		60 Hertz			4 Leads			
kW (kVA)		1 Phase					Dripproof or Open Enclosure			
P.F. Volts	Class B	Class F					Class H			
	80° C ① Continuous	90° C ① Lloyds	95° C ① ABS	105° C † British Standard	105° C ① Continuous	130° C ① Standby	125° C † British Standard	125° C ① Continuous	150° C ① Standby	
0.8 120V 120/240V	14.0 (17.5)	14.5 (18.1)	15.0 (18.8)	16.0 (20.0)	16.0 (20.0)	18.0 (22.5)	18.0 (22.5)	18.0 (22.5)	20.0 (25.0)	
1.0 120V 120/240V	24.0 (24.0)	25.0 (25.0)	25.0 (25.0)	30.0 (30.0)	30.0 (30.0)	32.0 (32.0)	32.0 (32.0)	32.0 (32.0)	35.0 (35.0)	

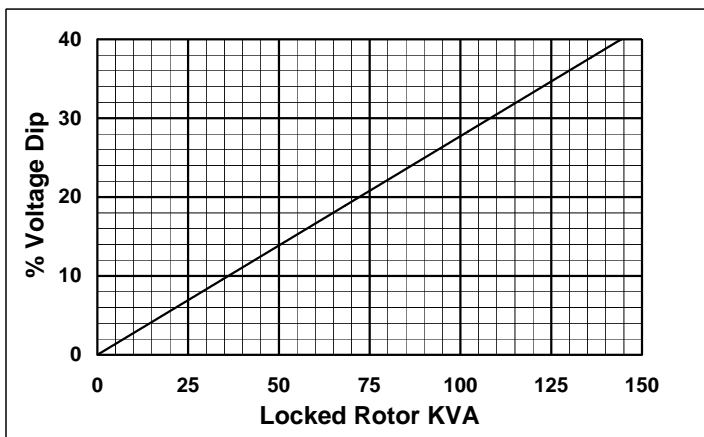
① Rise by resistance method, Mil-Std-705, Method 680.1b.

† Rating per BS 5000.

Submittal Data: 240 Volts, 1800 RPM, 60 Hz, 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)	3.2%
	Main Stator	1500 volts	601.4a	L-L Harmonic Maximum - Single	3.2%
	Main Rotor	1500 volts	601.1c	Deviation Factor	4.7%
	Exciter Stator	1500 volts	--	Type	Ext. Voltage Regulated, Brushless
	Exciter Rotor	1500 volts	----	Insulation	Class H
401.1a	Stator Resistance, Line to Line		----	Coupling - Single Bearing	Flexible
	High Wye Connection	0.06 Ohms	----	Amortisseur Windings	Full
	Rotor Resistance	1.41 Ohms	----	Cooling Air Volume	250 CFM
	Exciter Stator	18.1 Ohms	----	Exciter	Rotating
	Exciter Rotor	0.14 Ohms	----	Voltage Regulator	SE350
410.1a	No Load Exciter Field Amps at 240 Volts Line to Line	0.69 A DC	----	Voltage Regulation	1%

TYPICAL MOTOR STARTING CHARACTERISTICS



TYPICAL GENERATOR EFFICIENCY

