TAYLOR POWER SYSTEMS

TYPICAL SUBMITTAL DATA

Basic Model 432PSL6212

Kilowatt ratings at	**1800 RPM**		**60 Hertz**			**12 Leads**		
kW (kVA)	**3 Phase**		**0.8 Power Factor**			**Dripproof or Open Enclosure**		
	Class B	**Class F**				**Class H**		
Voltage*	**80° C ① Continuous**	**90° C ① Lloyds**	**95° C ① ABS**	**105° C ② British Standard**	**105° C ① Continuous**	**130° C ① Standby**	**125° C ② British Standard**	**125° C ① Continuous**	**150° C ① Standby**
240/480	230 (288)	250 (313)	260 (325)	275 (344)	275 (344)	300 (375)	282 (353)	300 (375)	310 (388)
230/460	230 (288)	250 (313)	260 (325)	275 (344)	275 (344)	300 (375)	282 (353)	292 (365)	310 (388)
220/440	227 (284)	245 (306)	252 (315)	266 (333)	266 (333)	290 (363)	273 (341)	285 (356)	300 (375)
208/416	225 (281)	240 (300)	245 (306)	260 (325)	260 (325)	280 (350)	265 (331)	276 (345)	300 (375)
190/380	212 (265)	227 (284)	232 (290)	243 (304)	243 (304)	265 (331)	250 (313)	256 (320)	275 (344)

① *Rise by resistance method, Mil-Std-705, Method 680.1b.* ② *Rating per BS 5000.*

Submittal Data: 240/480 Volts*, 375 kVA, 1800 RPM, 60 Hz, 3 Phase

Mil-Std-705B		
Method	**Description**	**Value**
301.1b	Insulation Resistance	> 1.5 Meg
302.1a	High Potential Test	
	Main Stator	2000 Volts
	Main Rotor	1500 Volts
	Exciter Stator	1500 Volts
	Exciter Rotor	1500 Volts
	PMG Stator	1500 Volts**
401.1a	Stator Resistance, Line to Line	
	High Wye Connection	0.0222 Ohms
	Rotor Resistance	0.866 Ohms
	Exciter Stator	18.5 Ohms
	Exciter Rotor	0.116 Ohms
	PMG Stator	2.1 Ohms**
410.1a	No Load Exciter Field Amps	
	at 480 Volts Line to Line	0.65 A DC
420.1a	Short Circuit Ratio	0.39
421.1a	Xd Synchronous Reactance	2.836 pu
422.1a	X2 Negative Sequence	
	Reactance	0.205 pu
423.1a	X0 Zero Sequence Reactance	0.037 pu
425.1a	X'd Transient Reactance	0.157 pu
426.1a	X"d Subtransient Reactance	0.137 pu
--	Xq Quadrature Synchronous	
	Reactance	1.434 sec.
427.1a	T'd Transient Short Circuit	
	Time Constant	0.062 sec.
428.1a	T"d Subtransient Short Circuit	
	Time Constant	0.013 sec.
430.1a	T'do Transient Open Circuit	
	Time Constant	1.84 sec.
432.1a	Ta Short Circuit Time	
	Constant of Armature Winding	0.015 sec.

Mil-Std-705B		
Method	**Description**	**Value**
505.3b	Overspeed	2250 RPM
507.1c	Phase Sequence CCW-ODE	ABC
508.1c	Voltage Balance, L-L or L-N	0.2%
601.4a	L-L Harmonic Maximum - Total	5.0%
	(Distortion Factor)	
601.4a	L-L Harmonic Maximum - Single	3.0%
601.1c	Deviation Factor	5.0%
---	TIF (1960 Weightings)	<50
625.1c	Mechanical Strength (High Wye	
	Connection, Sustained 3 Phase	
	Short Circuit Current)[3]	< 300%
652.1a	Shaft Current	< 0.1 ma
652.1a	Main Stator Capacitance to	
	Ground	0.021 mfd
	Additional Prototype Mil-Std Methods are Available on Request.	
--	Generator Frame	432
--	Type	Ext. Voltage Regulated, Brushless
--	Insulation	Class H
--	Coupling - Single Bearing	Flexible
--	Amortisseur Windings	Full
--	Cooling Air Volume	1020 CFM
--	Exciter	Rotating
--	Voltage Regulator	SE350***
--	Voltage Regulation	1%***
--	Sensing	1 Phase***

[3] Excitation support system or PMG required to sustain short circuit currents.

* Voltage refers to wye (star) connection, unless otherwise specified.

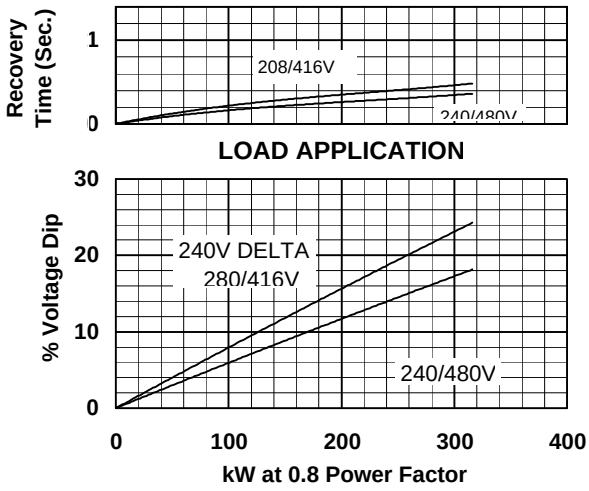
**Not supplied as standard equipment.

***DVR®2000E+ voltage regulator supplied with PMG option. DVR®2000E+ voltage regulation 1/4%, 1 or 3 Phase sensing.

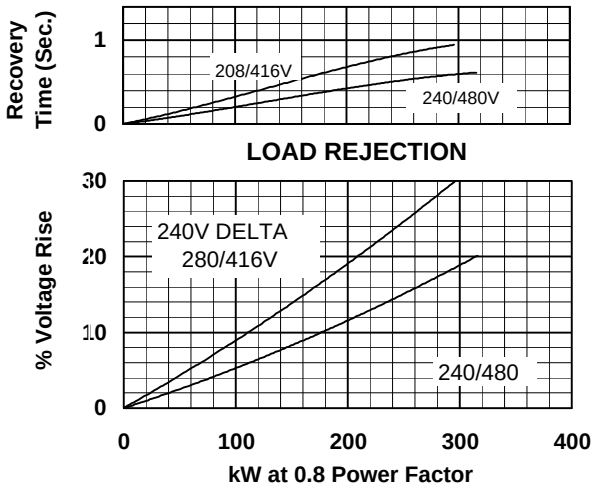
TAYLOR
POWER SYSTEMS

Basic Model 432PSL6212 **Test Report No. WC1905**

TYPICAL DYNAMIC CHARACTERISTICS
60 HERTZ

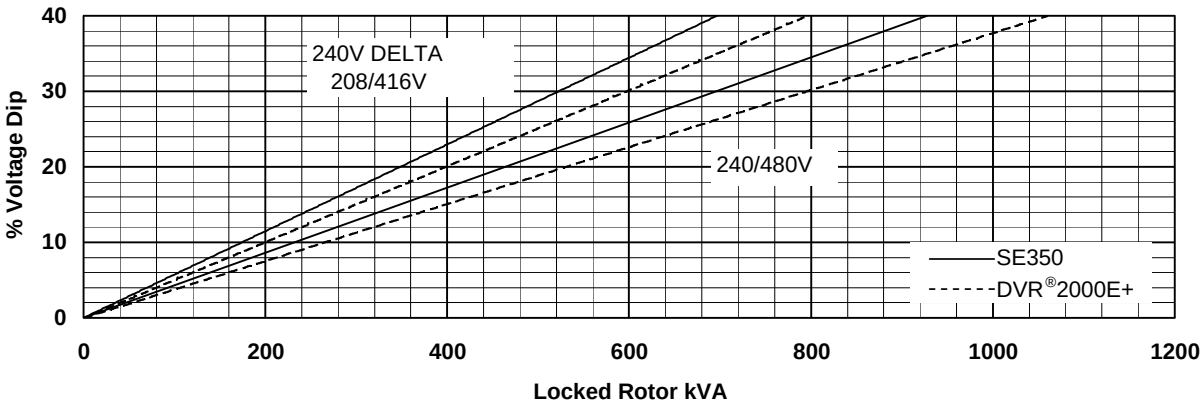


LOAD APPLICATION

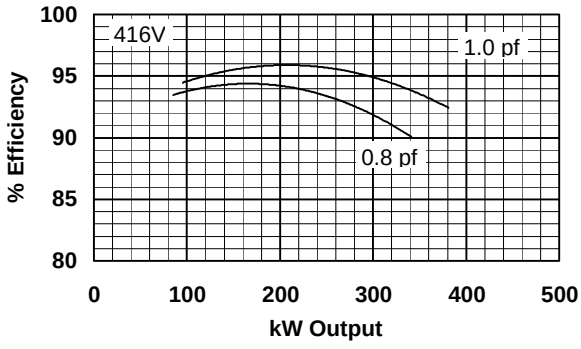


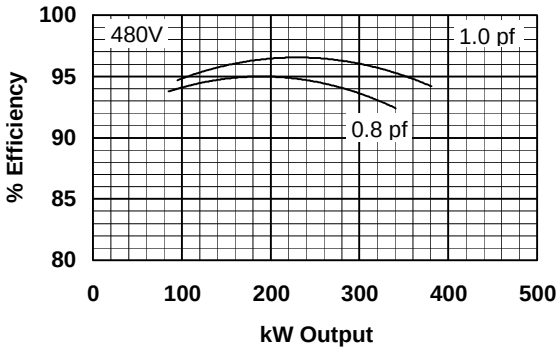
LOAD REJECTION

TYPICAL MOTOR STARTING CHARACTERISTICS



TYPICAL GENERATOR EFFICIENCY





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