

HARSH DUTY®

TYPICAL SUBMITTAL DATA

BASE MODEL: **572RSL6325**

Winding: **570078**

Date: **02/16/22**

Kilowatt ratings at	1500 RPM	50 Hertz		12 Leads With Bus Bars	
kW (kVA)	3 Phase	0.8 Power Factor		Dripproof or Open Enclosure	
	CONTINUOUS ^{1, 2}			STANDBY ^{1, 2}	
Voltage*	NEMA B / 80 °C	NEMA F / 105 °C	NEMA H / 125 °C	NEMA F / 130 °C	NEMA H / 150 °C
220/440	205 (256)	265 (331)	290 (363)	300 (375)	315 (394)
208/415	275 (344)	330 (413)	355 (444)	365 (456)	380 (475)
200/400	305 (381)	360 (450)	380 (475)	390 (488)	405 (506)
190/380	325 (406)	375 (469)	400 (500)	400 (500)	405 (506)

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

② Machine rated for Max Ambient of 40 °C, Max Altitude 3300 ft

Submittal Data: 400 Volts*, 390 kW, 488 kVA, 0.8 P.F., 1500 RPM, 50 Hz, 3 Phase

High Wye CONNECTION

Mil-Std-705B Method	Description	Value	Units	Mil-Std-705C Method	Description	Value	Units
301.1b	Insulation Resistance	>1.5 Meg	Ohms	505.3b	Overspeed	1875	RPM
302.1a	High Potential Test			507.1c	Phase Sequence CCW-ODE	ABC	
	Main Stator	1960	Volts	508.1c	Voltage Balance, L-L or L-N	0.2%	
	Main Rotor	1500	Volts	601.4a	L-L Harmonic Max - Total (Distortion Factor)	5.0%	
	Exciter Stator	1500	Volts		L-L Harmonic Max - Single	3.0%	
	Exciter Rotor	1500	Volts	601.4a	L-L Harmonic Max - Single	3.0%	
	PMG Stator	1500	Volts	601.1c	Deviation Factor	5.0%	
401.1a	Stator Resistance, Line to Line High Wye Connection	0.01320	Ohms	---	TIF (1960 Weightings)	<50	
				---	THF (IEC, BS & NEMA Weightings)	<2%	
	Rotor Resistance	0.376	Ohms	---	Winding Pitch	2/3	
	Exciter Stator	23	Ohms				
	Exciter Rotor	0.045	Ohms				
	PMG Stator	2.1	Ohms				
410.1a	No Load Exciter Field Amps at 400 Volts Line to Line	0.71	A DC	Additional Prototype Mil-Std Methods are Available on Request.			
420.1a	Short Circuit Ratio	0.555					
421.1a	Xd Synchronous Reactance	3.005	PU	--	Generator Frame	572	
		0.986	Ohms	--	Type	MagnaMax	
422.1a	X2 Negative Sequence React.	0.231	PU	--	Insulation	Class H	
		0.076	Ohms	--	Coupling - Single Bearing	Flexible	
423.1a	X0 Zero Sequence Reactance	0.055	PU	--	Amortisseur Windings	Full	
		0.018	Ohms	--	Excitation	Ext. Voltage Regulated, Brushless	
425.1a	X'd Transient Reactance	0.173	PU	--	Voltage Regulator	PM500	
		0.057	Ohms	--	Voltage Regulation	0.50%	
426.1a	X''d Subtransient Reactance	0.146	PU				
		0.048	Ohms				
--	Xq Quadrature Synchronous Reactance	1.123	PU	--	Cooling Air Volume	1280	CFM
		0.369	Ohms	--	Heat rejection rate	1403	Btu's/min
427.1a	T'd Transient Short Circuit Time Constant	0.121	Sec	--	Full load current	703.6	Amps
				--	Minimum Input hp required	555.9	HP
428.1a	T''d Subtransient Short Circuit Time Constant	0.012	Sec	--	Full load torque	1946	Lb-ft
				--	Efficiency at rated load :	94.1%	
430.1a	T'do Transient Open Circuit Time Constant	1.77	Sec				
432.1a	Ta Short Circuit Time Constant of Armature Winding	0.021	Sec				
				--	Weight	2730	lbs

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

www.regalrexnord.com/brands/Marathon-Generators

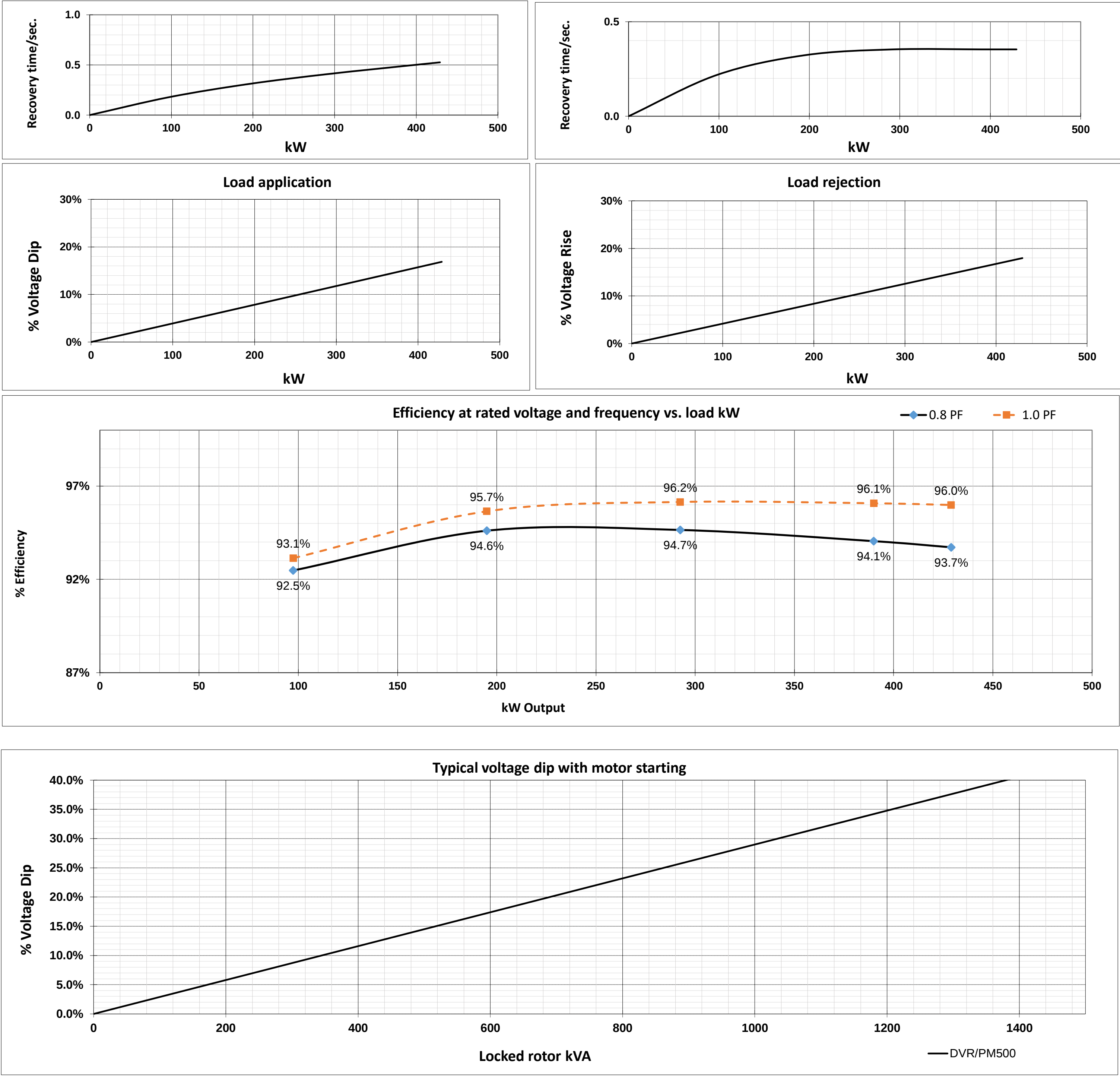
HARSH DUTY®

TYPICAL DYNAMIC CHARACTERISTICS

BASE MODEL: 572RSL6325

Date: 02/16/22

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HARSH DUTY®

DECREMENT CURVE

BASE MODEL: 572RSL6325

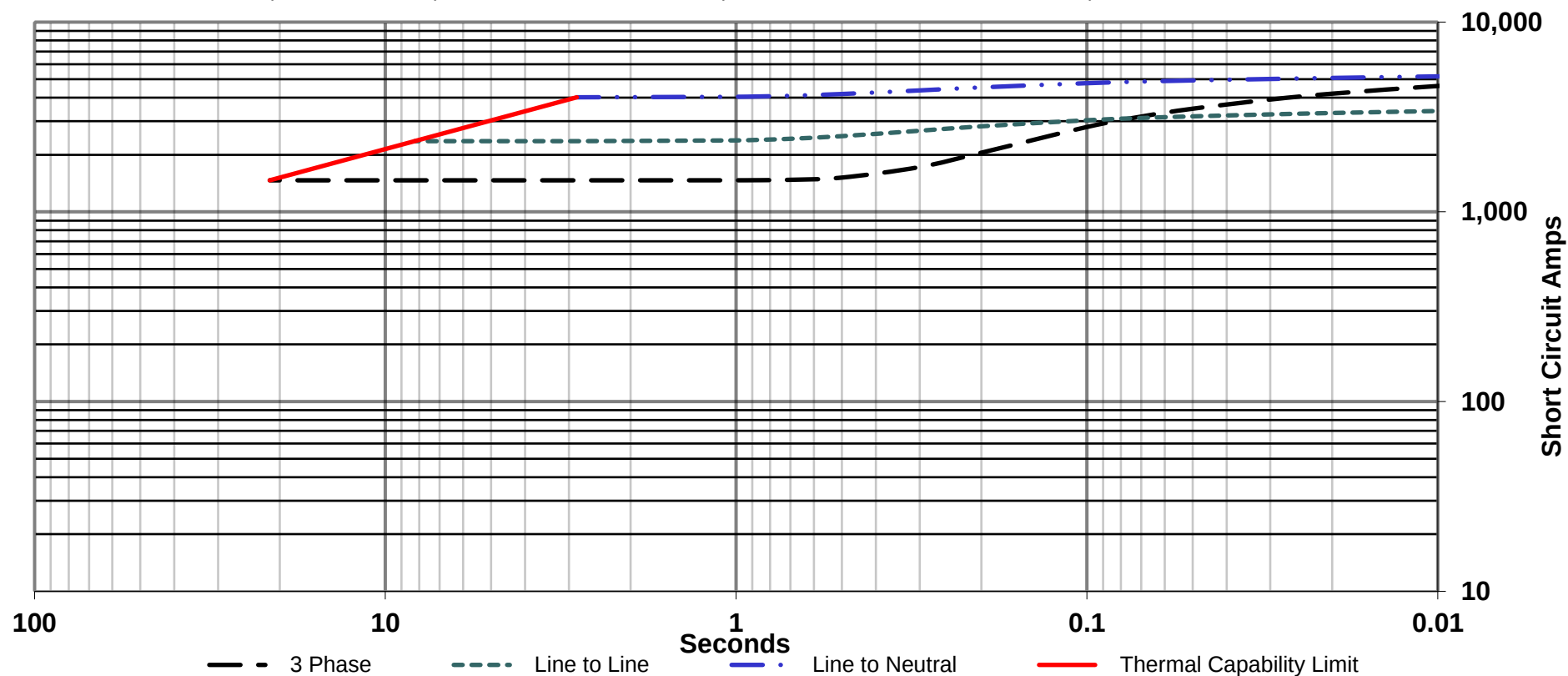
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Date : 02/16/22

Full Load Current : 703.6 amps
Steady State S.C. Current : 1465.83 amps

Max. 3 ph. Symm. S.C. Current : 4825 amps
INCLUDES EXCITATION SUPPORT (PMG)

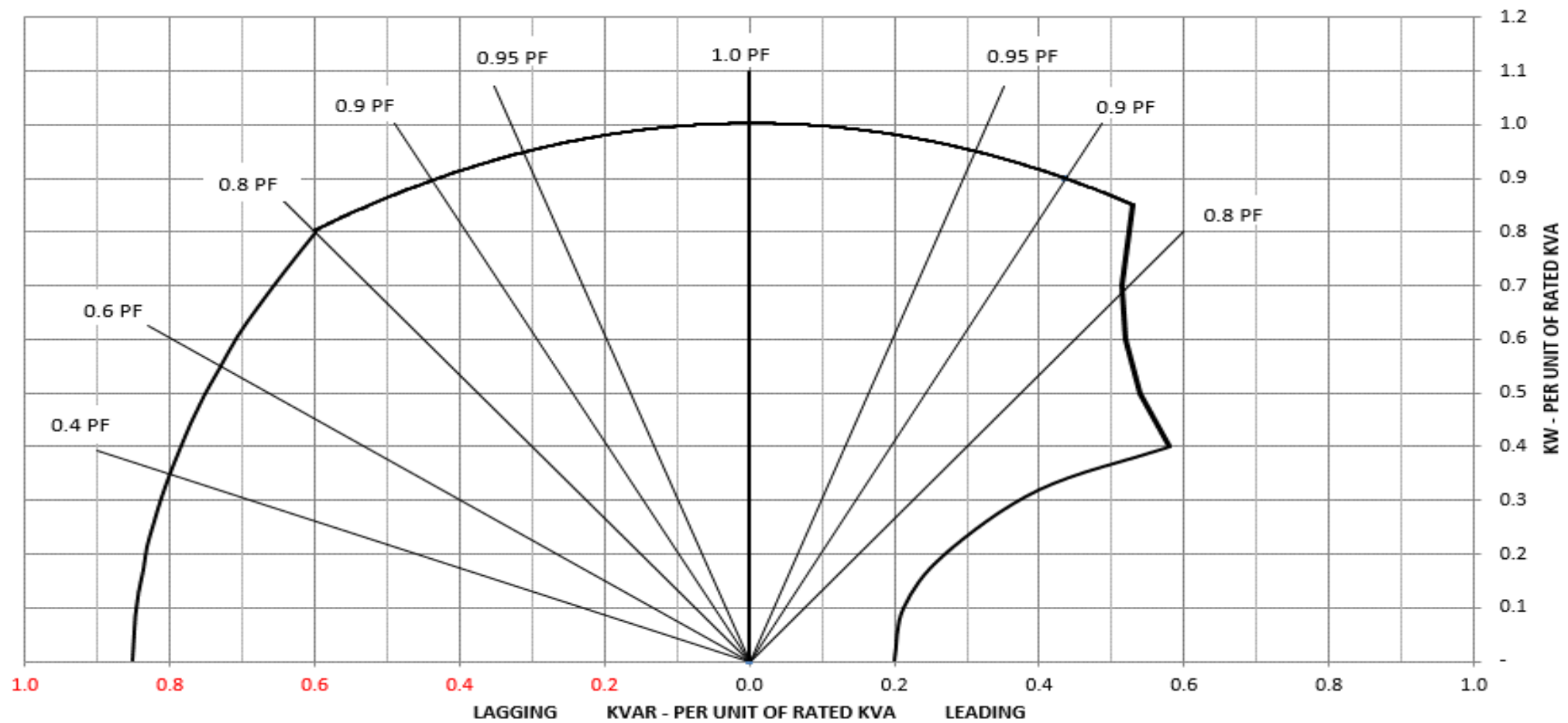
Symmetrical Component values, Maximum Asymmetrical Values Are 1.732 Times Symmetrical Values



HARSH DUTY®

Typical Reactive Capability Curve

Date : 02/16/22



HARSH DUTY®

THERMAL DAMAGE CURVE

Date : 02/16/22

Base is 3.0 P.U. current for 10 seconds from $T = 40/(I-1)^2$
Windings at operating temperature

