



**TYPICAL SUBMITTAL DATA**

BASE MODEL: **362PSL1604**

Winding: **1604**

Date: **01/28/22**

Kilowatt ratings at	<b>1800 RPM</b>	<b>60 Hertz</b>		<b>12 Leads</b>	
kW (kVA)	<b>3 Phase</b>	<b>0.8 Power Factor</b>		<b>Dripproof or Open Enclosure</b>	
	<b>CONTINUOUS<sup>1, 2</sup></b>			<b>STANDBY<sup>1, 2</sup></b>	
<b>Voltage*</b>	<b>NEMA B / 80 °C</b>	<b>NEMA F / 105 °C</b>	<b>NEMA H / 125 °C</b>	<b>NEMA F / 130 °C</b>	<b>NEMA H / 150 °C</b>
<b>240/480</b>	<b>75 (94)</b>	<b>84 (105)</b>	<b>90 (113)</b>	<b>90 (113)</b>	<b>95 (119)</b>
<b>220/440</b>	<b>68 (85)</b>	<b>76 (95)</b>	<b>84 (105)</b>	<b>84 (105)</b>	<b>89 (111)</b>
<b>208/416</b>	<b>65 (81)</b>	<b>72 (90)</b>	<b>80 (100)</b>	<b>80 (100)</b>	<b>85 (106)</b>
<b>200/400</b>	<b>63 (79)</b>	<b>69 (86)</b>	<b>76 (95)</b>	<b>76 (95)</b>	<b>81 (101)</b>
<b>190/380</b>	<b>60 (75)</b>	<b>65 (81)</b>	<b>72 (90)</b>	<b>72 (90)</b>	<b>77 (96)</b>

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: 208 Volts\*, 80 kW, 100 kVA, 0.8 P.F., 1800 RPM, 60 Hz, 3 Phase** **Low 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	2250	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)	3.5%	
	Exciter Stator	1500	Volts				
	Exciter Rotor	1500	Volts	601.4a	L-L Harmonic Max - Single	2.5%	
				601.1c	Deviation Factor	7.0%	
401.1a	Stator Resistance, Line to Line Low Wye Connection	0.03450	Ohms	---	TIF (1960 Weightings)	<50	
	Rotor Resistance	1.05	Ohms	---	THF (IEC, BS & NEMA Weightings)	<2%	
	Exciter Stator	23.5	Ohms	---	Winding Pitch	2/3	
	Exciter Rotor	0.12	Ohms				
410.1a	No Load Exciter Field Amps at 208 Volts Line to Line	0.38	A DC	<b>Additional Prototype Mil-Std Methods are Available on Request.</b>			
420.1a	Short Circuit Ratio	0.473					
421.1a	Xd Synchronous Reactance	2.492	PU	--	Generator Frame	362	
		1.078	Ohms	--	Type	MagnaPlus	
422.1a	X2 Negative Sequence React.	0.198	PU	--	Insulation	Class H	
		0.085	Ohms	--	Coupling - Single Bearing	Flexible	
423.1a	X0 Zero Sequence Reactance	0.051	PU	--	Amortisseur Windings	Full	
		0.022	Ohms	--	Excitation	Ext. Voltage Regulated, Brushless	
425.1a	X'd Transient Reactance	0.170	PU	--	Voltage Regulator	SE350	
		0.074	Ohms	--	Voltage Regulation	1.00%	
426.1a	X''d Subtransient Reactance	0.131	PU				
		0.057	Ohms				
				--	Cooling Air Volume	700	CFM
				--	Heat rejection rate	496	Btu's/min
427.1a	T'd Transient Short Circuit Time Constant	0.05	Sec	--	Full load current	277.6	Amps
				--	Minimum Input hp required	118.9	HP
428.1a	T''d Subtransient Short Circuit Time Constant	0.007	Sec	--	Full load torque	347	Lb-ft
				--	Efficiency at rated load :	90.2%	
430.1a	T'do Transient Open Circuit Time Constant	0.8	Sec				
432.1a	Ta Short Circuit Time Constant of Armature Winding	0.01	Sec	--	Weight	706	lbs

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

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Not indicative of legal entity.



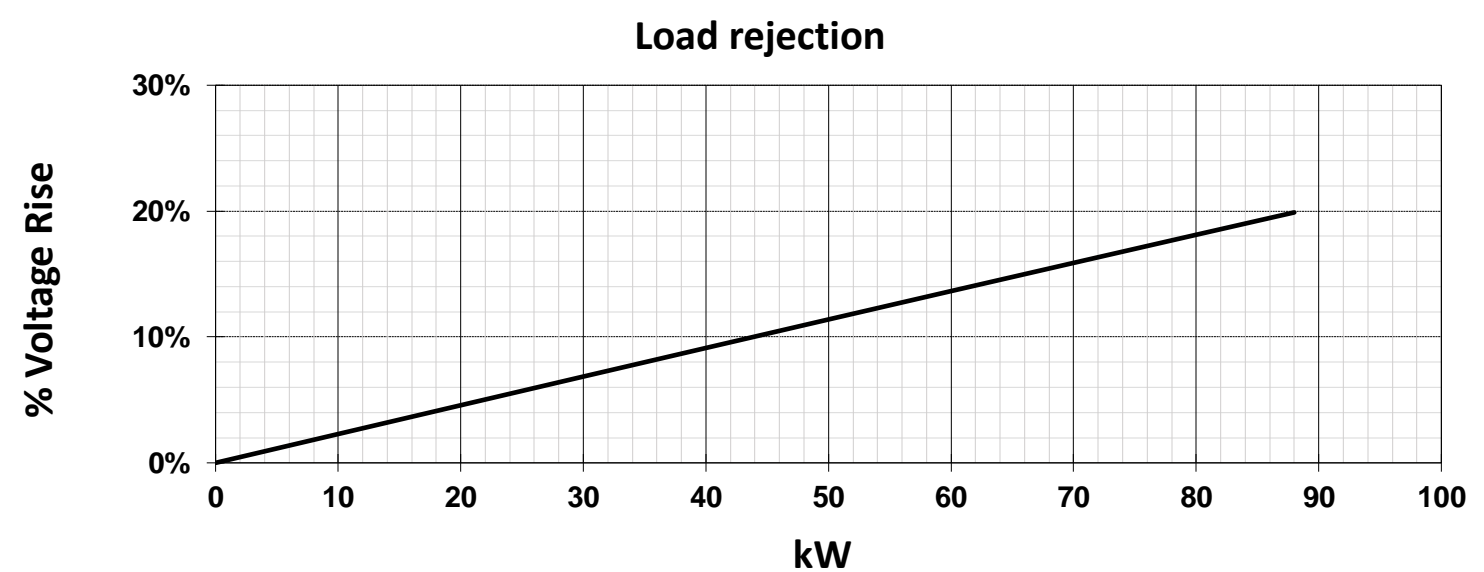
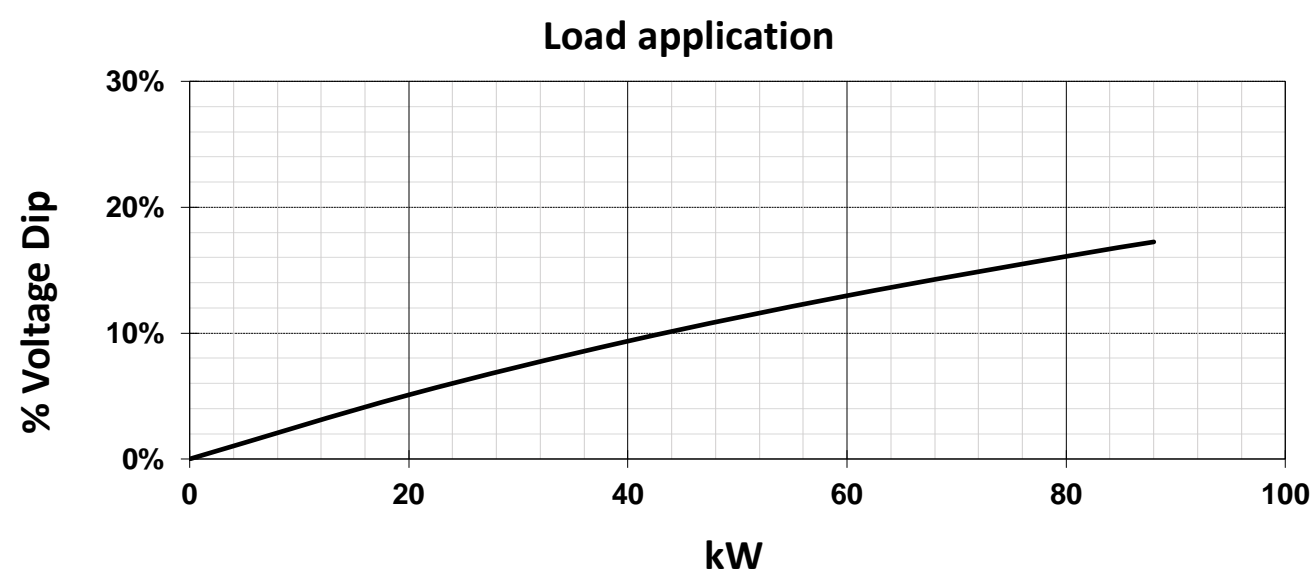
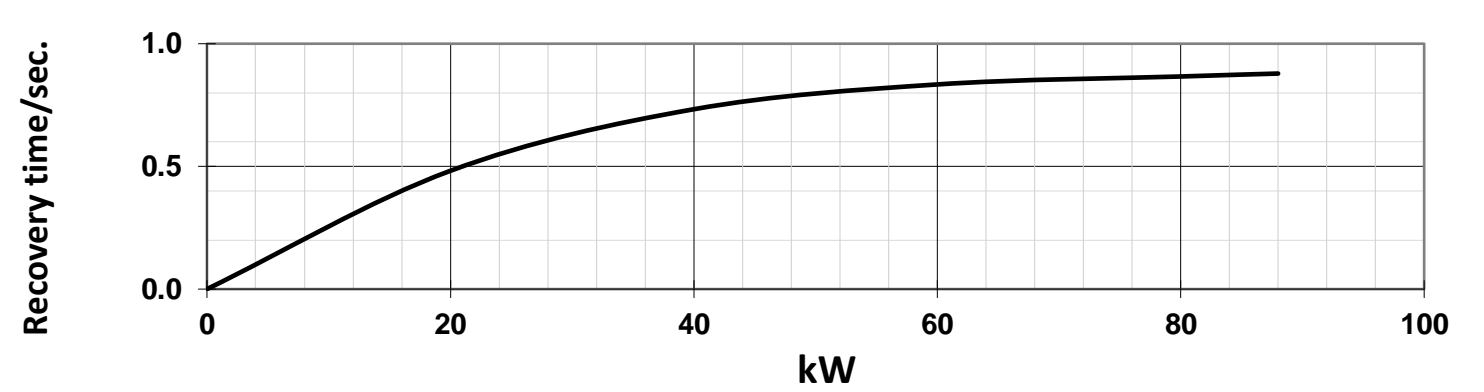
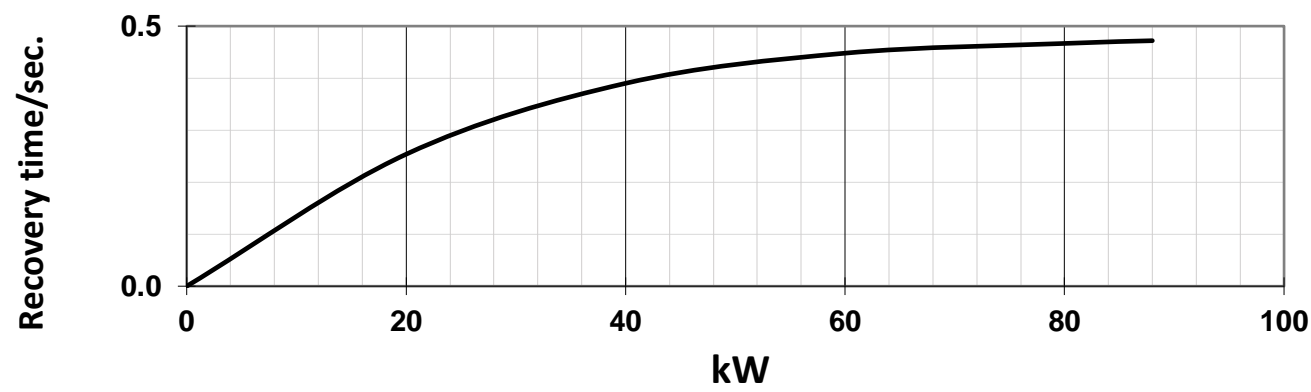
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## TYPICAL DYNAMIC CHARACTERISTICS

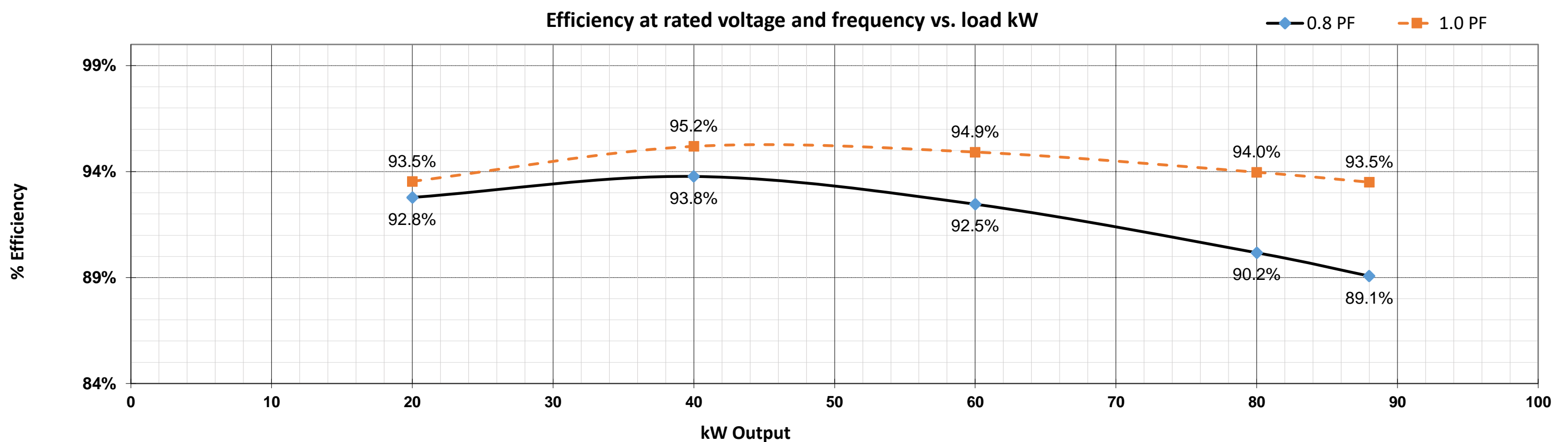
BASE MODEL: **362PSL1604**

Date: **01/28/22**

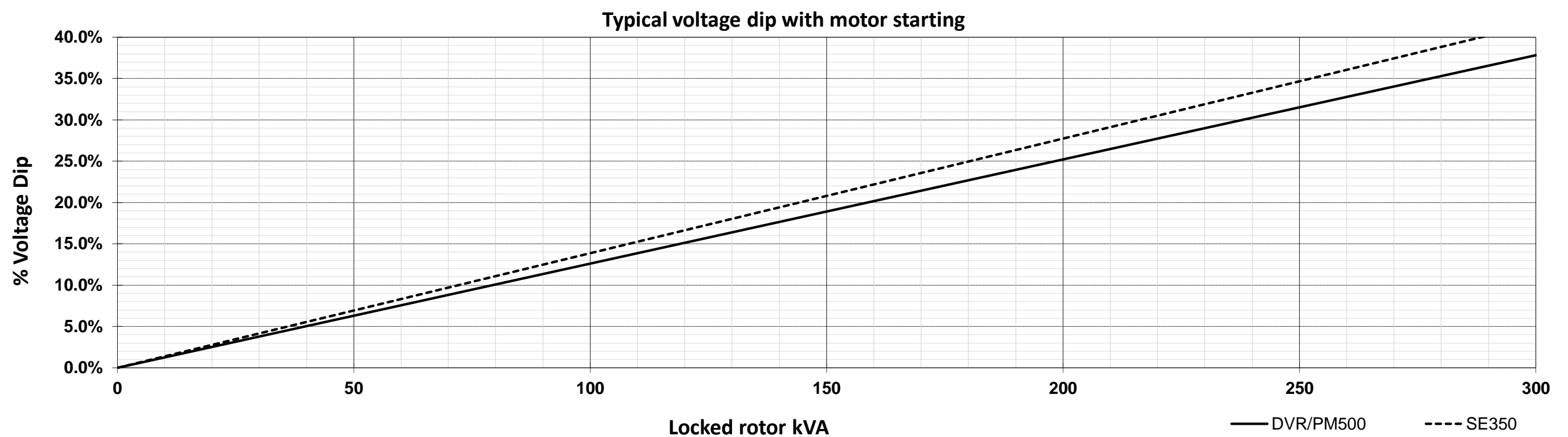
Submittal Data: **208 Volts\*, 80 kW, 100 kVA, 0.8 P.F., 1800 RPM, 60 Hz, 3 Phase**



Efficiency at rated voltage and frequency vs. load kW



Typical voltage dip with motor starting



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## DECREMENT CURVE

BASE MODEL: 362PSL1604

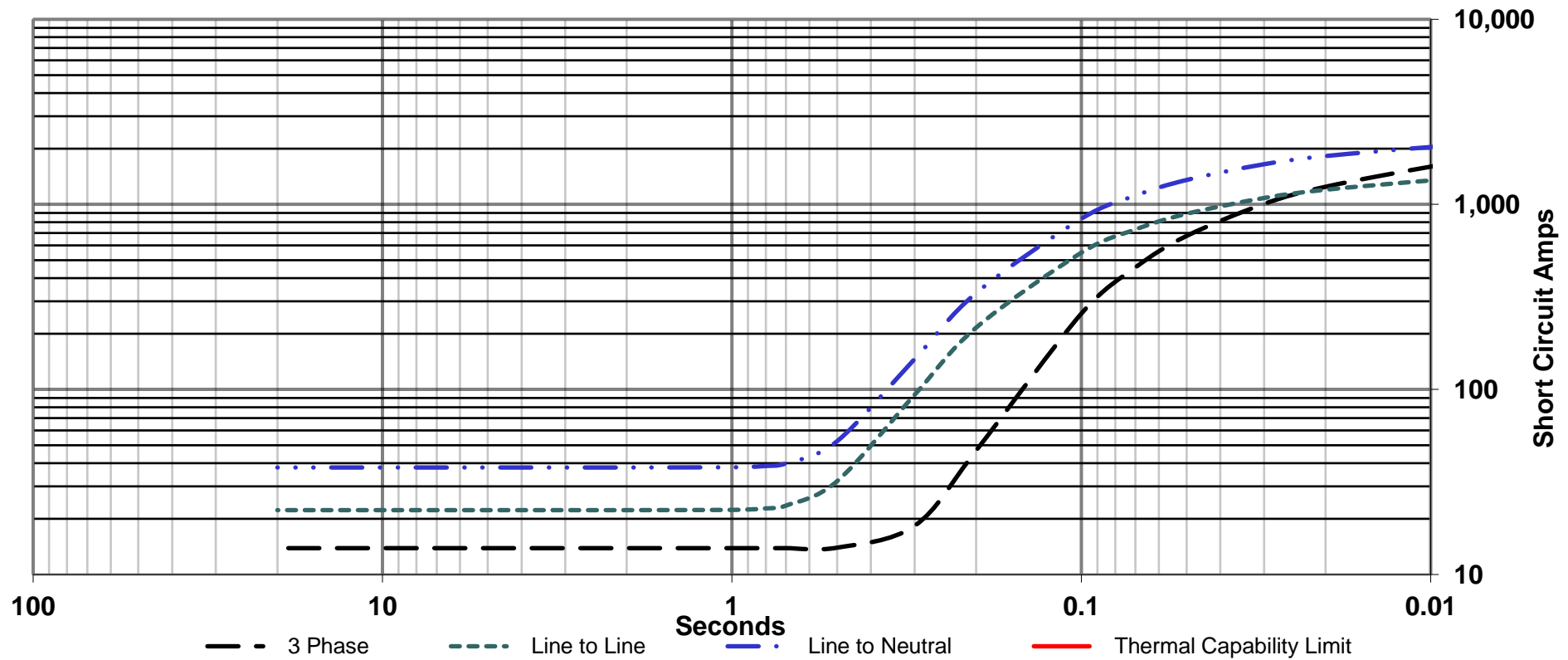
Submittal Data: 208 Volts\*, 80 kW, 100 kVA, 0.8 P.F., 1800 RPM, 60 Hz, 3 Phase

Date : 01/28/22

Full Load Current : 277.6 amps  
Steady State S.C. Current : 13.88 amps

Max. 3 ph. Symm. S.C. Current : 2113 amps

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



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## DECREMENT CURVE

BASE MODEL: 362PSL1604

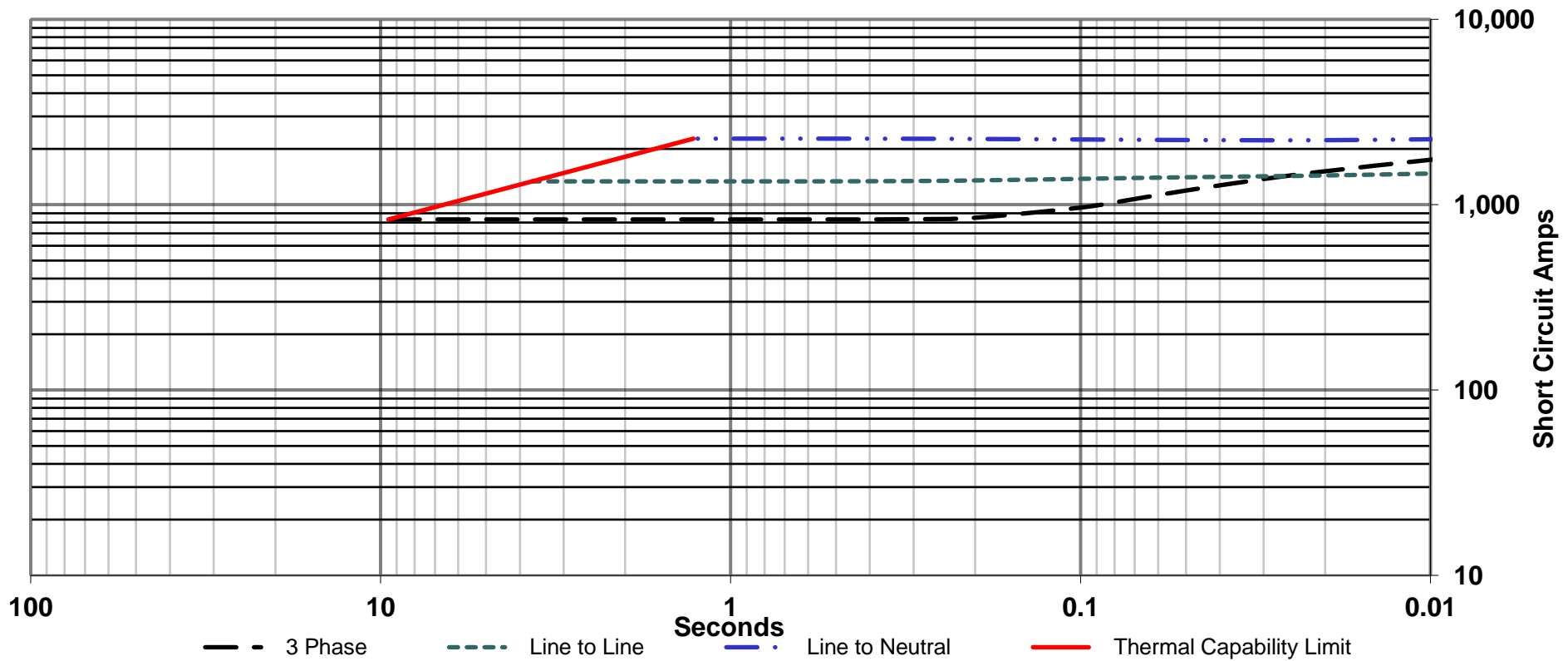
Submittal Data: 208 Volts\*, 80 kW, 100 kVA, 0.8 P.F., 1800 RPM, 60 Hz, 3 Phase

Date : 01/28/22

Full Load Current : 277.6 amps  
Steady State S.C. Current : 832.8 amps

Max. 3 ph. Symm. S.C. Current : 2113 amps  
INCLUDES EXCITATION SUPPORT (PMG)

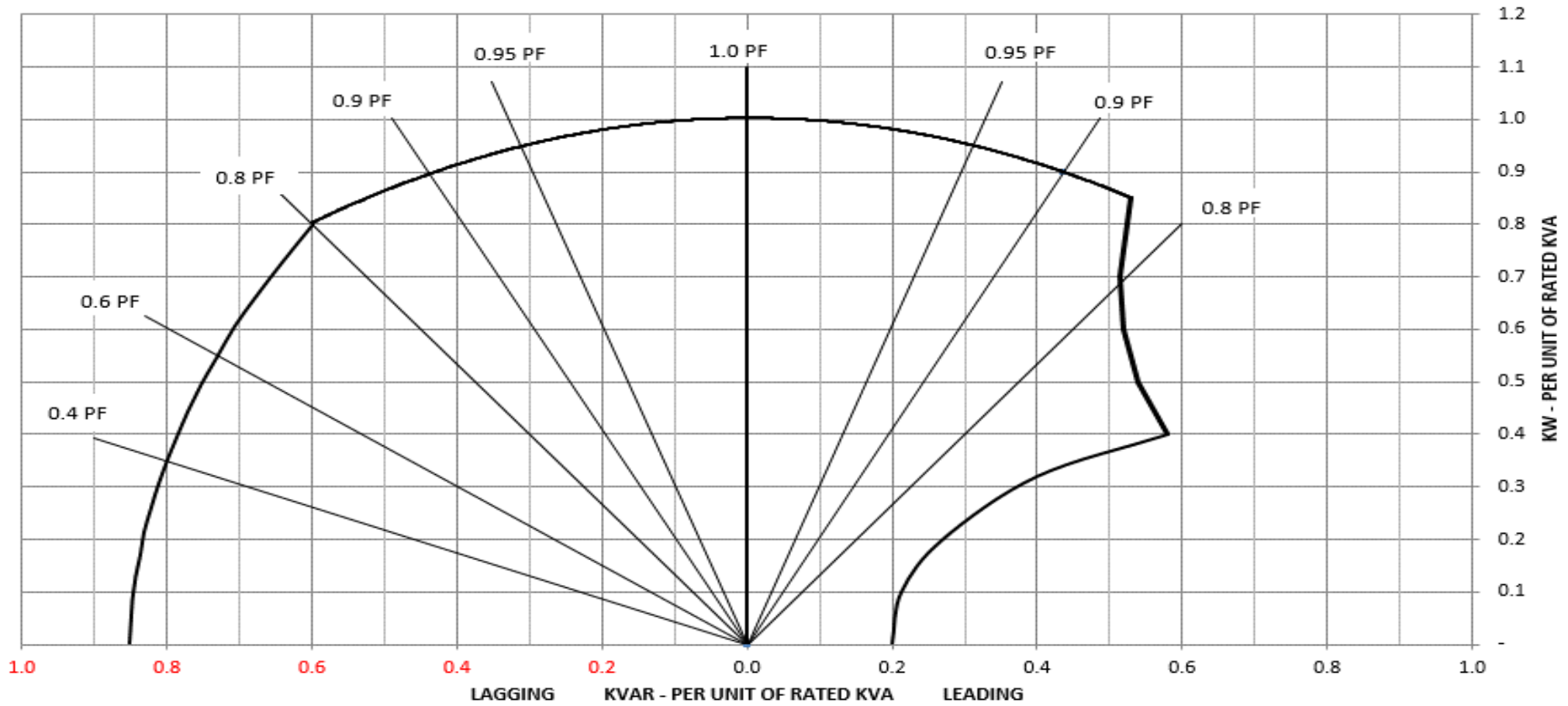
Symmetrical Component values, Maximum Asymmetrical Values Are 1.732 Times Symmetrical Values



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## Typical Reactive Capability Curve

Date : 01/28/22



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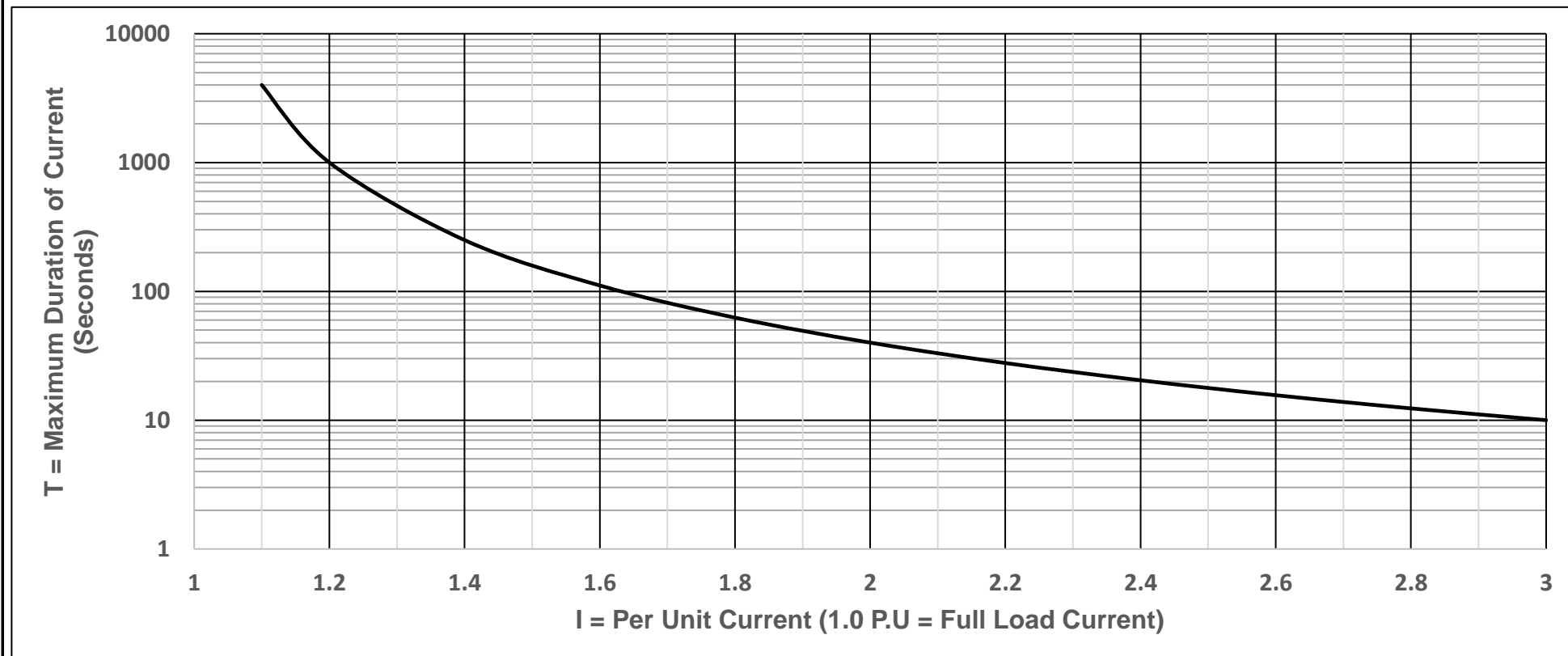
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## THERMAL DAMAGE CURVE

Date : 01/28/22

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



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