TYPICAL SUBMITTAL DATA

BASE MODEL: 744FSL4062 **Winding:** 740307 **Date:** 01/13/22

Kilowatt ratings at	1800 RPM	60 Hertz		4 Bus Bars	
kW (kVA)	3 Phase	0.8 Power Factor		Drippproof 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
480	1500 (1875)	1800 (2250)	1900 (2375)	1900 (2375)	1900 (2375)
440	1530 (1913)	1780 (2225)	1860 (2325)	1860 (2325)	1860 (2325)
416	1510 (1888)	1750 (2188)	1830 (2288)	1830 (2288)	1830 (2288)
400	1475 (1844)	1706 (2133)	1750 (2188)	1750 (2188)	1750 (2188)
380	1430 (1788)	1650 (2063)	1650 (2063)	1650 (2063)	1650 (2063)

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: 480 Volts*, 1900 kW, 2375 kVA, 0.8 P.F., 1800 RPM, 60 Hz, 3 Phase **High Wye CONNECTION**

Mil-Std-705B Method	Description	Value	Units	Mil-Std-705C Method	Description	Value	Units
301.1b	Insulation Resistance	>10 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)	5.0%	
	Exciter Stator	1500	Volts				
	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	0.00180	Ohms	---	TIF (1960 Weightings)	<50	
				---	THF (IEC, BS & NEMA Weightings)	<2%	
	Rotor Resistance	1.044	Ohms	---	Winding Pitch	2/3	
	Exciter Stator	22.1	Ohms				
	Exciter Rotor	0.066	Ohms				
	PMG Stator	2.1	Ohms				
410.1a	No Load Exciter Field Amps at 480 Volts Line to Line	0.79	A DC	**Additional Prototype Mil-Std Methods are Available on Request.**			
420.1a	Short Circuit Ratio	0.543					
421.1a	Xd Synchronous Reactance	2.370	PU	--	Generator Frame	744	
		0.230	Ohms	--	Type	MagnaMax	
422.1a	X2 Negative Sequence React.	0.211	PU	--	Insulation	Class H	
		0.020	Ohms	--	Coupling - Single Bearing	Flexible	
423.1a	X0 Zero Sequence Reactance	0.070	PU	--	Amortisseur Windings	Full	
		0.007	Ohms	--	Excitation	Ext. Voltage Regulated, Brushless	
425.1a	X'd Transient Reactance	0.176	PU	--	Voltage Regulator	DVR2400	
		0.017	Ohms	--	Voltage Regulation	0.25%	
426.1a	X''d Subtransient Reactance	0.143	PU				
		0.014	Ohms				
--	Xq Quadrature Synchronous Reactance	1.120	PU	--	Cooling Air Volume	3190	CFM
		0.109	Ohms	--	Heat rejection rate	4141	Btu's/min
427.1a	T'd Transient Short Circuit Time Constant	0.196	Sec	--	Full load current	2856.7	Amps
				--	Minimum Input hp required	2644.5	HP
428.1a	T''d Subtransient Short Circuit Time Constant	0.012	Sec	--	Full load torque	7713	Lb-ft
				--	Efficiency at rated load :	96.3%	
430.1a	T'do Transient Open Circuit Time Constant	3.4	Sec				
432.1a	Ta Short Circuit Time Constant of Armature Winding	0.024	Sec	--	Weight	8300	lbs

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

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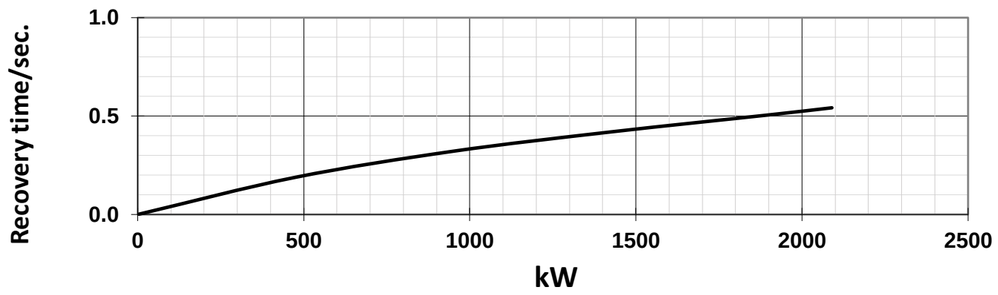
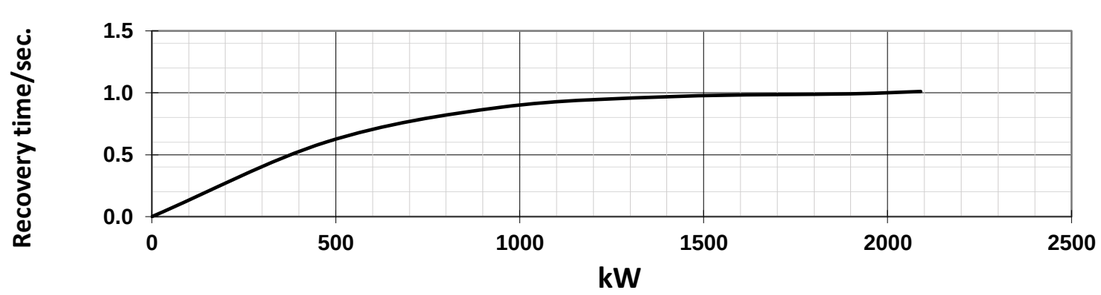
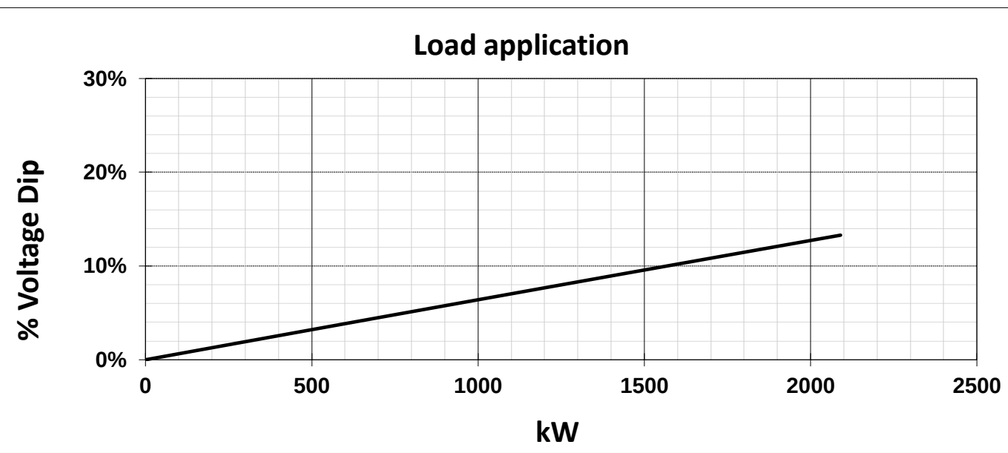
TYPICAL DYNAMIC CHARACTERISTICS

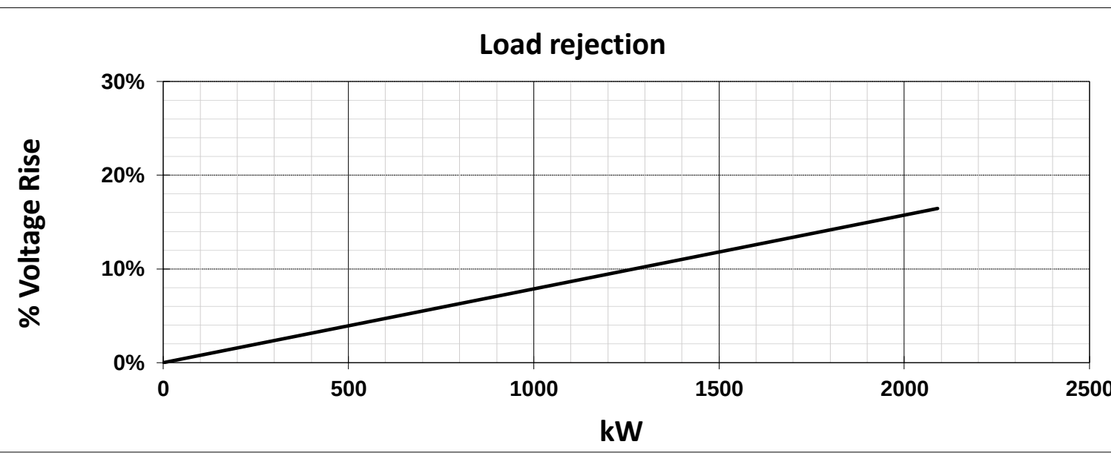
BASE MODEL: 744FSL4062 **Date: 01/13/22**

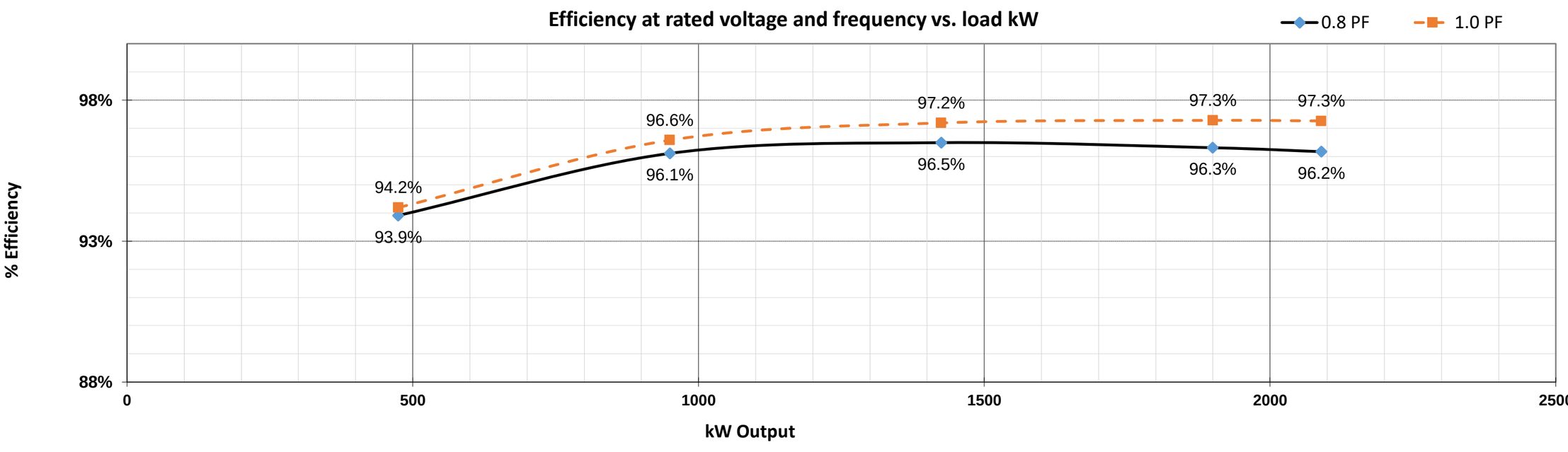
Submittal Data: 480 Volts*, 1900 kW, 2375 kVA, 0.8 P.F., 1800 RPM, 60 Hz, 3 Phase

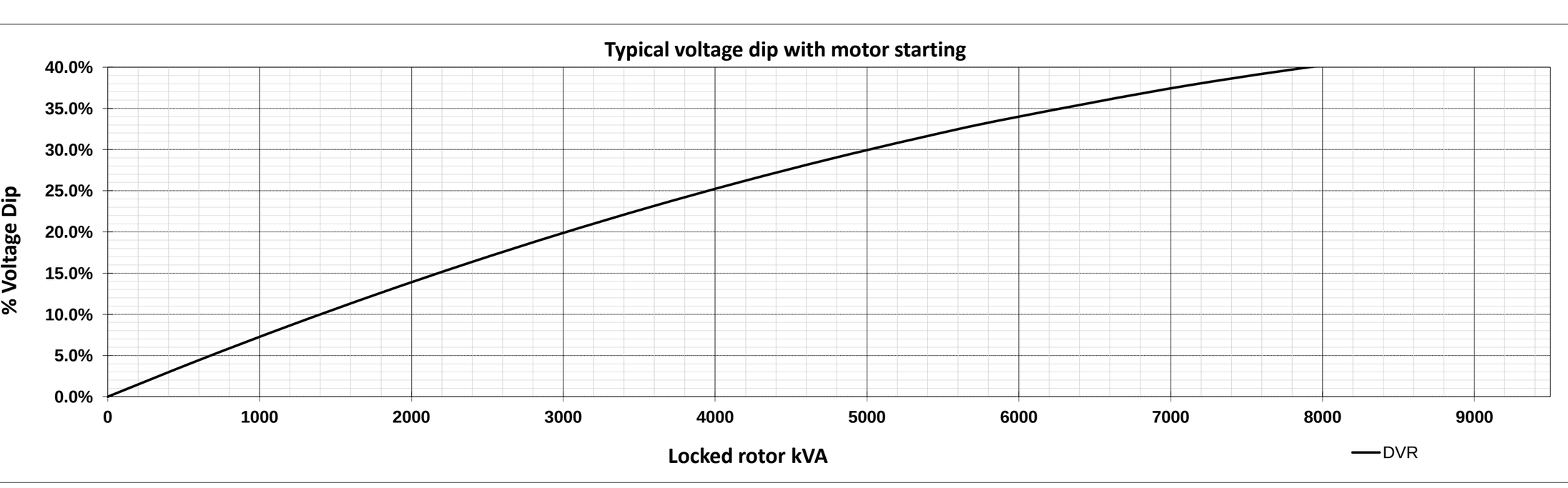












DECREMENT CURVE

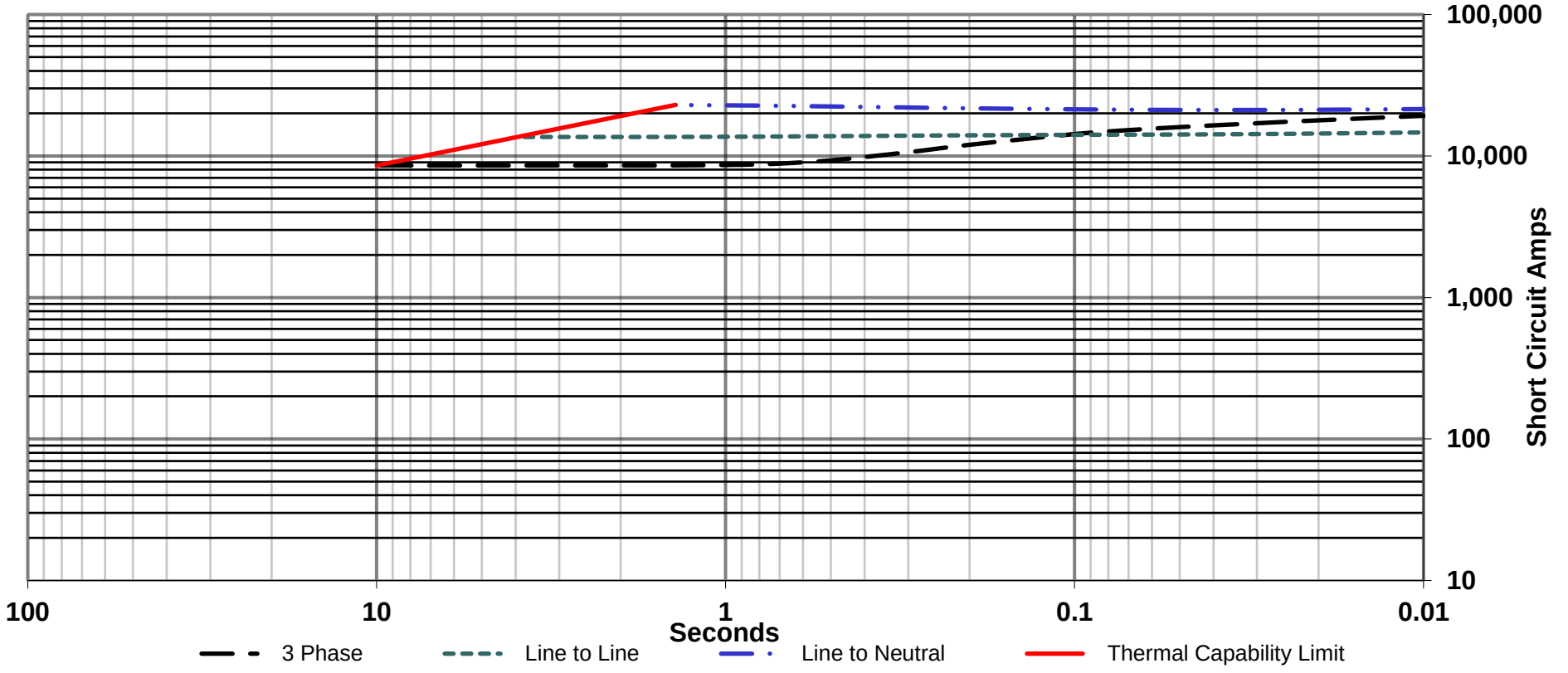
BASE MODEL: 744FSL4062

Submittal Data: 480 Volts*, 1900 kW, 2375 kVA, 0.8 P.F., 1800 RPM, 60 Hz, 3 Phase **Date : 01/13/22**

Full Load Current : 2856.7 amps
Steady State S.C. Current : 8570.1 amps

Max. 3 ph. Symm. S.C. Current : 19977 amps
INCLUDES EXCITATION SUPPORT (PMG)

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



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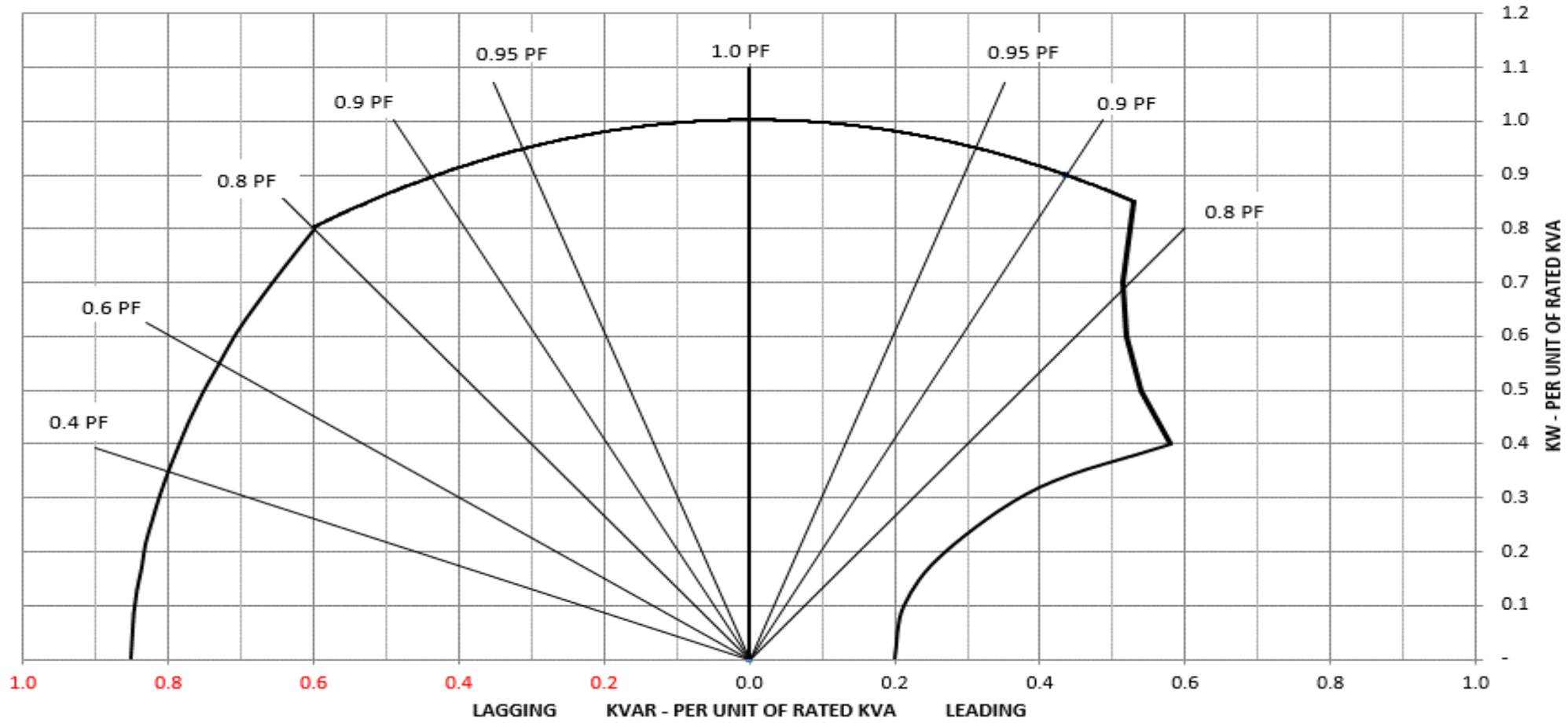
MAGNAMAX®

Typical Reactive Capability Curve

Date : 01/13/22



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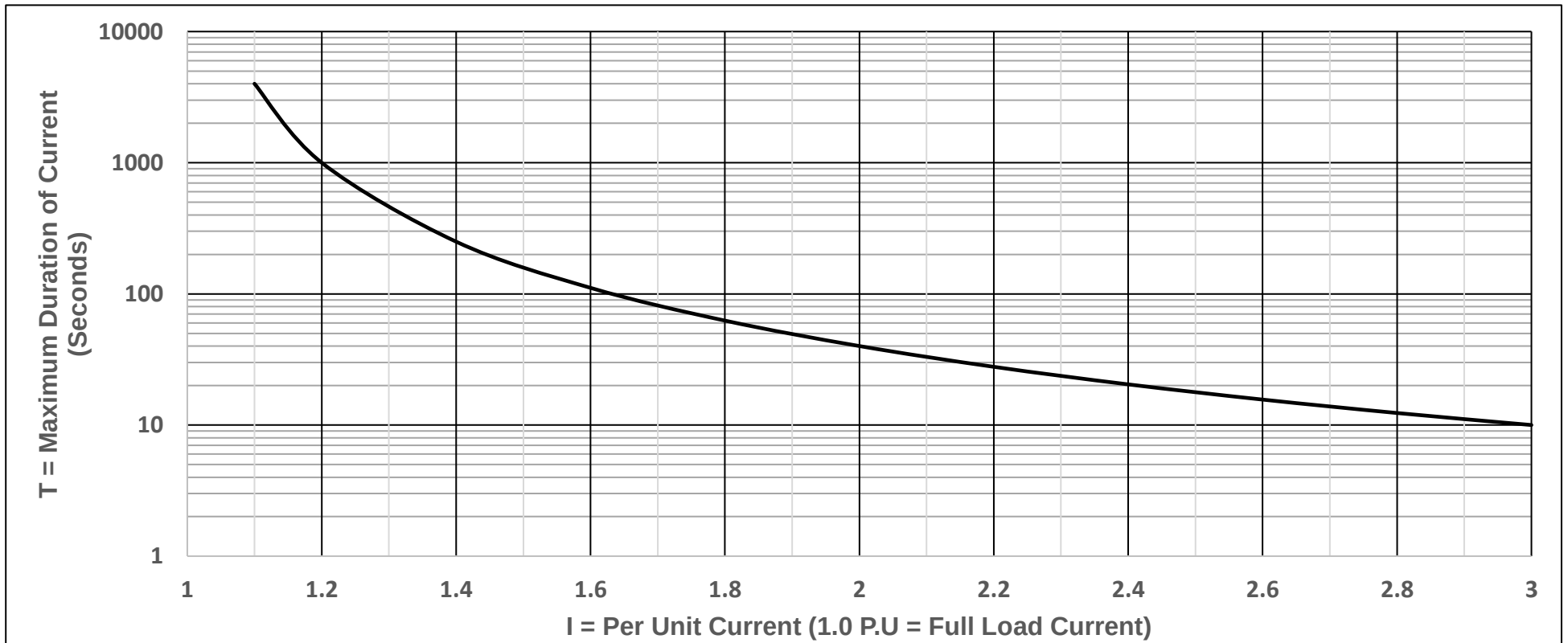
MAGNAMAX®

THERMAL DAMAGE CURVE

Date : 01/13/22

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



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