



TYPICAL SUBMITTAL DATA

BASE MODEL: 433PSL6216

Winding: 1907

Date: 01/28/22

| | | | | | |
|---------------------|----------------------------|------------------|-----------------|-----------------------------|-----------------|
| Kilowatt ratings at | 1800 RPM | 60 Hertz | 12 Leads | | |
| 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 |
| 240/480 | 280 (350) | 342 (428) | 375 (469) | 380 (475) | 400 (500) |
| 220/440 | 290 (363) | 348 (435) | 372 (465) | 380 (475) | 395 (494) |
| 208/416 | 290 (363) | 343 (429) | 366 (458) | 375 (469) | 387 (484) |
| 200/400 | 286 (358) | 337 (421) | 359 (449) | 367 (459) | 380 (475) |
| 190/380 | 281 (351) | 330 (413) | 350 (438) | 357 (446) | 370 (463) |

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*, 375 kW, 469 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) | 5.0% | |
| | Exciter Stator | 1500 | Volts | | | | |
| | Exciter Rotor | 1500 | Volts | 601.4a | L-L Harmonic Max - Single | 3.0% | |
| | | | 601.1c | Deviation Factor | 5.0% | | |
| 401.1a | Stator Resistance, Line to Line Low Wye Connection | 0.00310 | Ohms | --- | TIF (1960 Weightings) | <50 | |
| | Rotor Resistance | 1.079 | Ohms | --- | THF (IEC, BS & NEMA Weightings) | <2% | |
| | Exciter Stator | 18.5 | Ohms | --- | Winding Pitch | 2/3 | |
| | Exciter Rotor | 0.116 | Ohms | | | | |
| 410.1a | No Load Exciter Field Amps at 208 Volts Line to Line | 0.56 | A DC | Additional Prototype Mil-Std Methods are Available on Request. | | | |
| 420.1a | Short Circuit Ratio | 0.420 | | | | | |
| 421.1a | Xd Synchronous Reactance | 2.856 | PU | -- | Generator Frame | 433 | |
| | | 0.264 | Ohms | -- | Type | MagnaPlus | |
| 422.1a | X2 Negative Sequence React. | 0.256 | PU | -- | Insulation | Class H | |
| | | 0.024 | Ohms | -- | Coupling - Single Bearing | Flexible | |
| 423.1a | X0 Zero Sequence Reactance | 0.050 | PU | -- | Amortisseur Windings | Full | |
| | | 0.005 | Ohms | -- | Excitation | Ext. Voltage Regulated, Brushless | |
| 425.1a | X'd Transient Reactance | 0.149 | PU | -- | Voltage Regulator | SE350 | |
| | | 0.014 | Ohms | -- | Voltage Regulation | 1.00% | |
| 426.1a | X''d Subtransient Reactance | 0.142 | PU | | | | |
| | | 0.013 | Ohms | | | | |
| -- | Xq Quadrature Synchronous Reactance | 1.477 | PU | -- | Cooling Air Volume | 880 | CFM |
| | | 0.136 | Ohms | -- | Heat rejection rate | 1388 | Btu's/min |
| 427.1a | T'd Transient Short Circuit Time Constant | 0.067 | Sec | -- | Full load current | 1301.1 | Amps |
| | | | | -- | Minimum Input hp required | 535.4 | HP |
| 428.1a | T''d Subtransient Short Circuit Time Constant | 0.015 | Sec | -- | Full load torque | 1562 | Lb-ft |
| | | | | -- | Efficiency at rated load : | 93.9% | |
| 430.1a | T'do Transient Open Circuit Time Constant | 2.06 | Sec | | | | |
| 432.1a | Ta Short Circuit Time Constant of Armature Winding | 0.013 | Sec | -- | Weight | 2235 | lbs |

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

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Not indicative of legal entity.



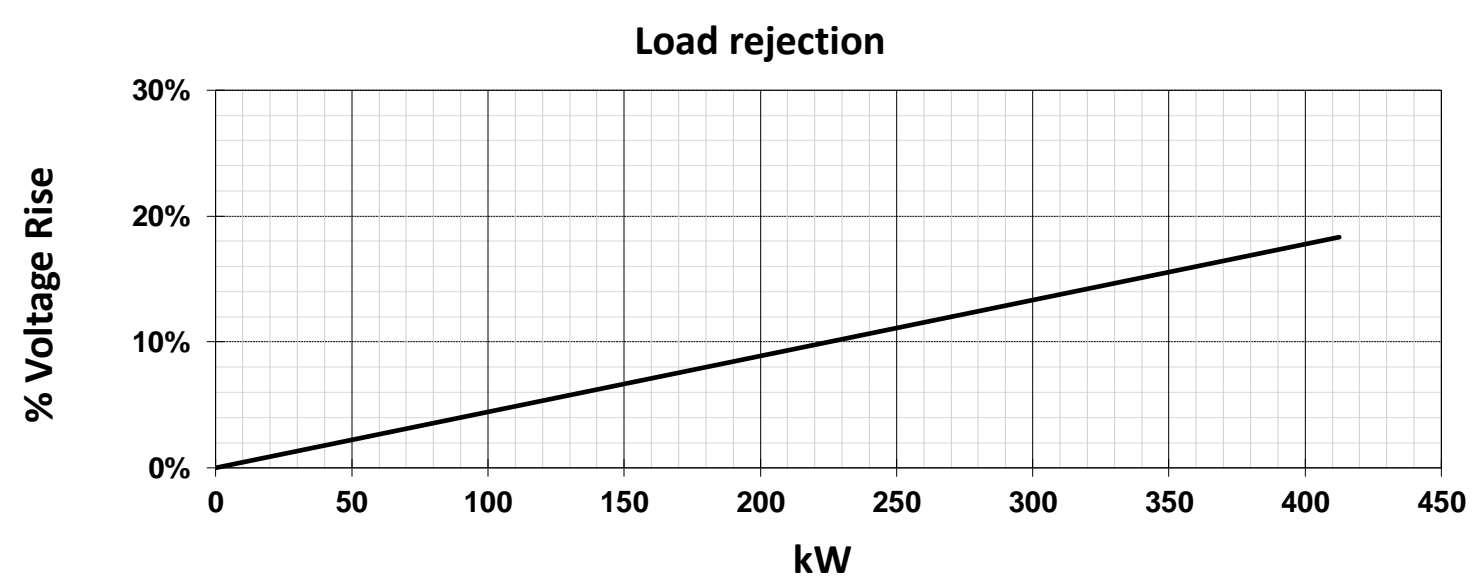
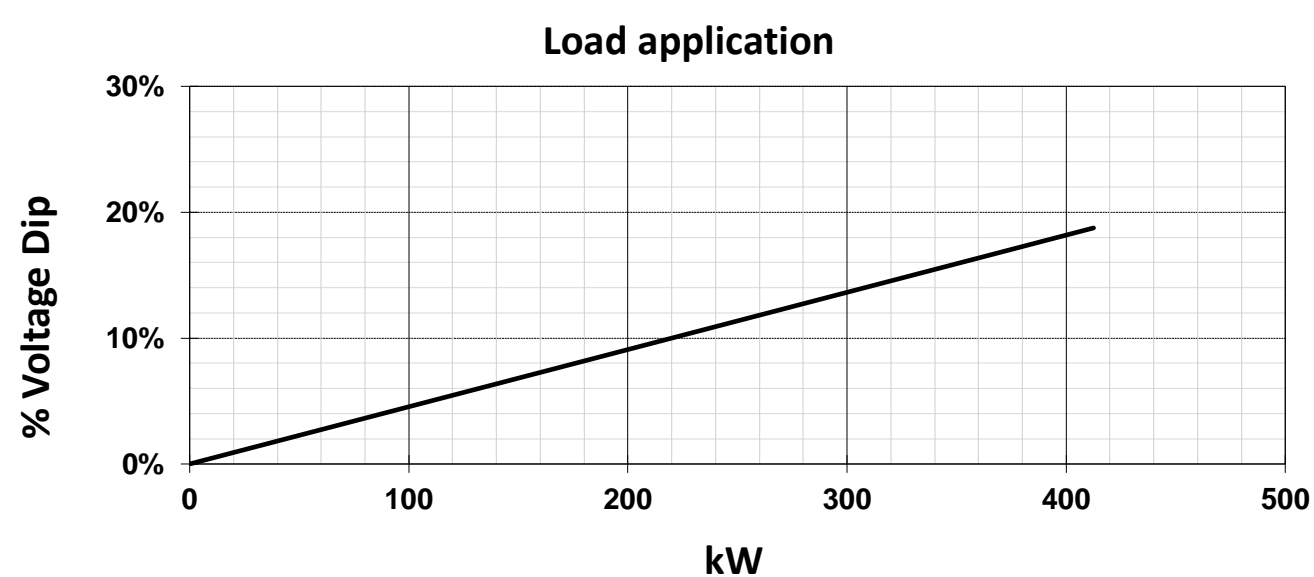
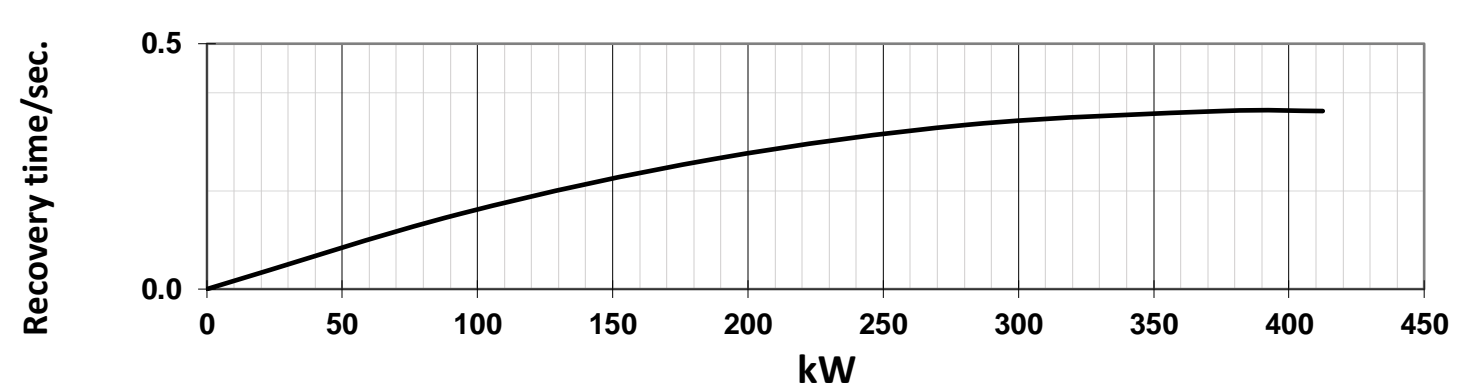
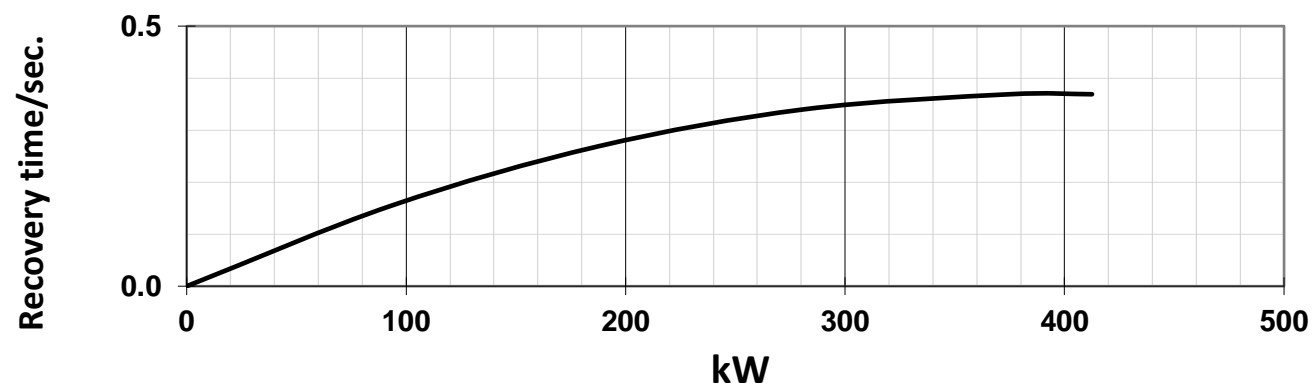
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TYPICAL DYNAMIC CHARACTERISTICS

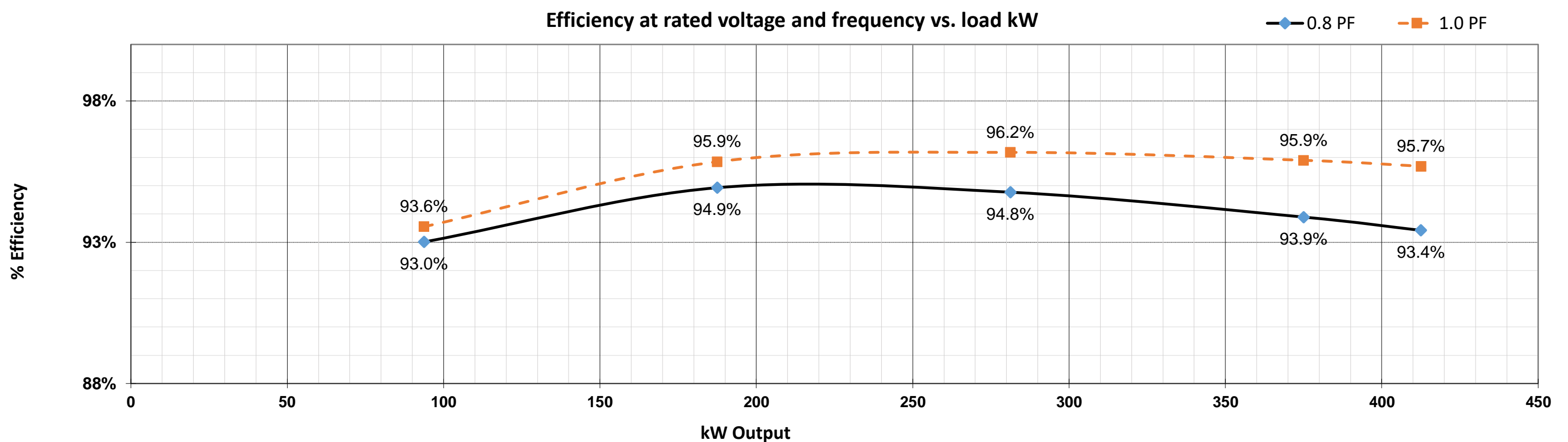
BASE MODEL: **433PSL6216**

Date: **01/28/22**

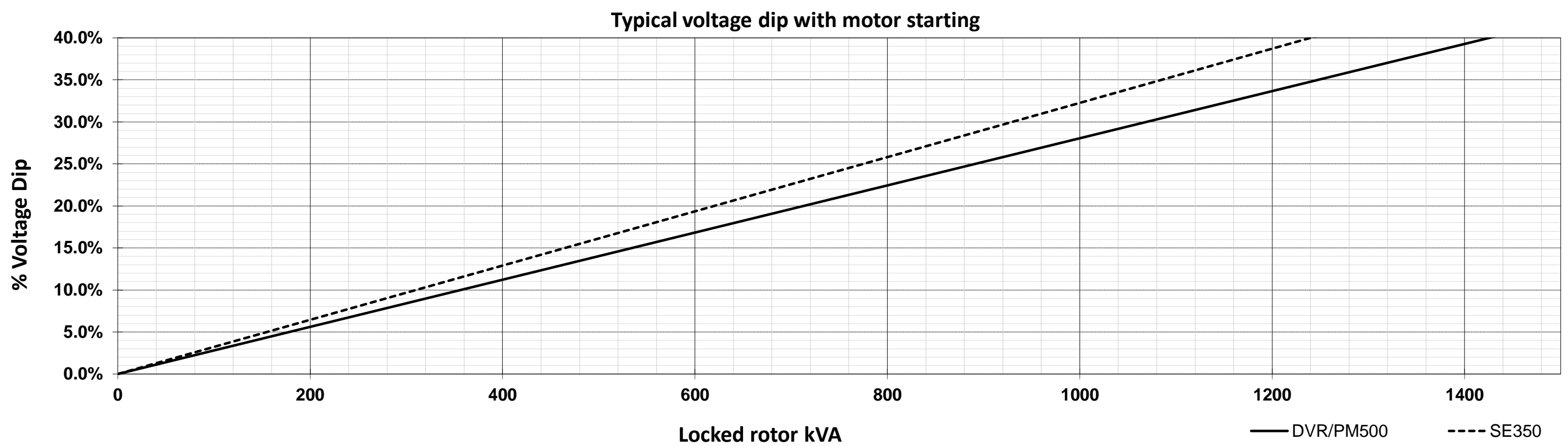
Submittal Data: 208 Volts*, 375 kW, 469 kVA, 0.8 P.F., 1800 RPM, 60 Hz, 3 Phase



Efficiency at rated voltage and frequency vs. load kW



Typical voltage dip with motor starting



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DECREMENT CURVE

BASE MODEL: 433PSL6216

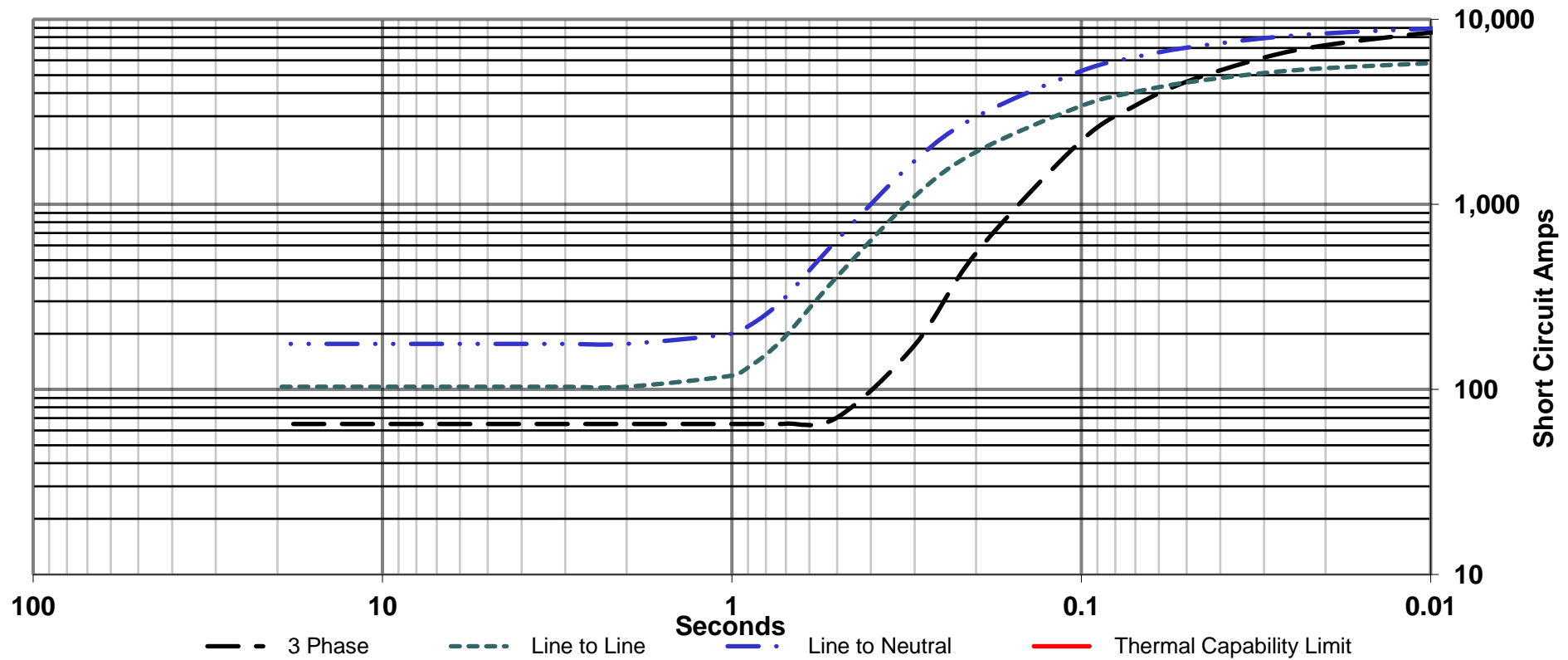
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Date : 01/28/22

Full Load Current : 1301.1 amps
Steady State S.C. Current : 65.06 amps

Max. 3 ph. Symm. S.C. Current : 9170 amps

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



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DECREMENT CURVE

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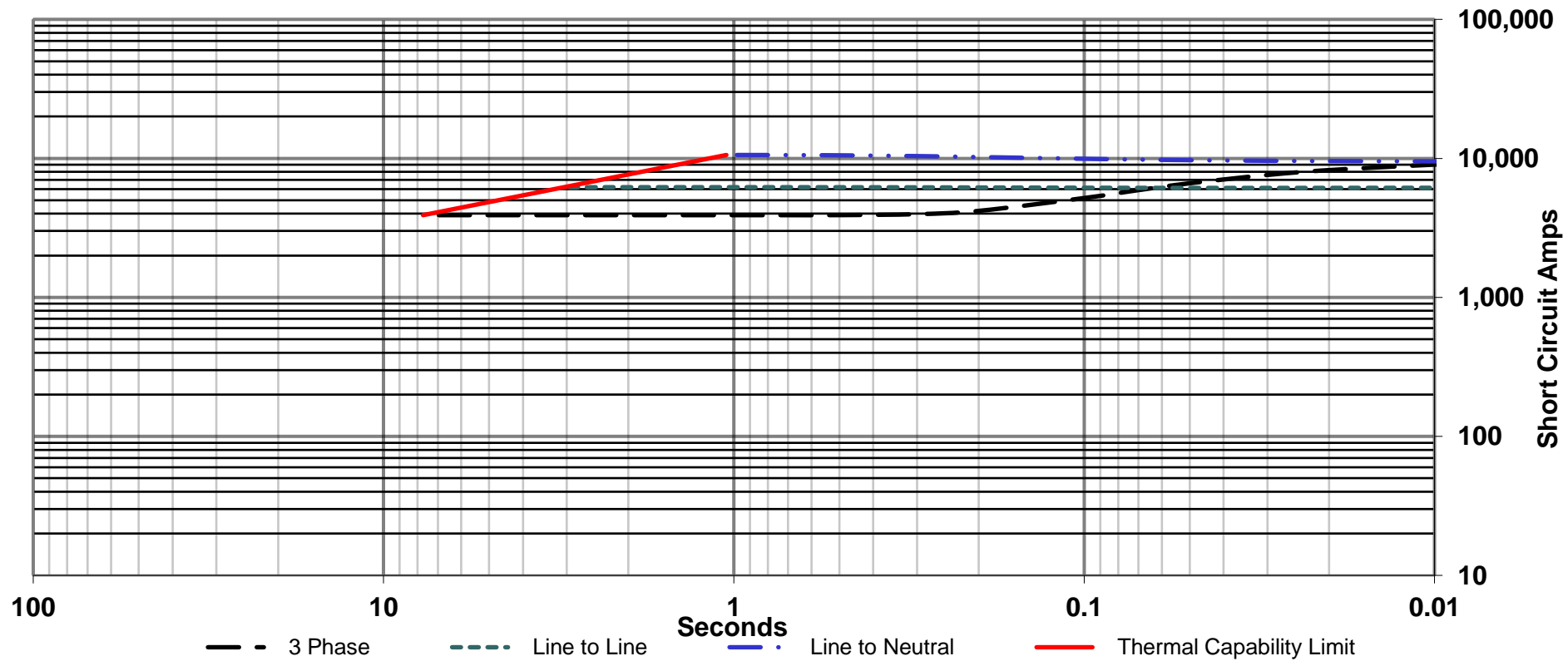
Submittal Data: 208 Volts*, 375 kW, 469 kVA, 0.8 P.F., 1800 RPM, 60 Hz, 3 Phase

Date : 01/28/22

Full Load Current : 1301.1 amps
Steady State S.C. Current : 3903.3 amps

Max. 3 ph. Symm. S.C. Current : 9170 amps
INCLUDES EXCITATION SUPPORT (PMG)

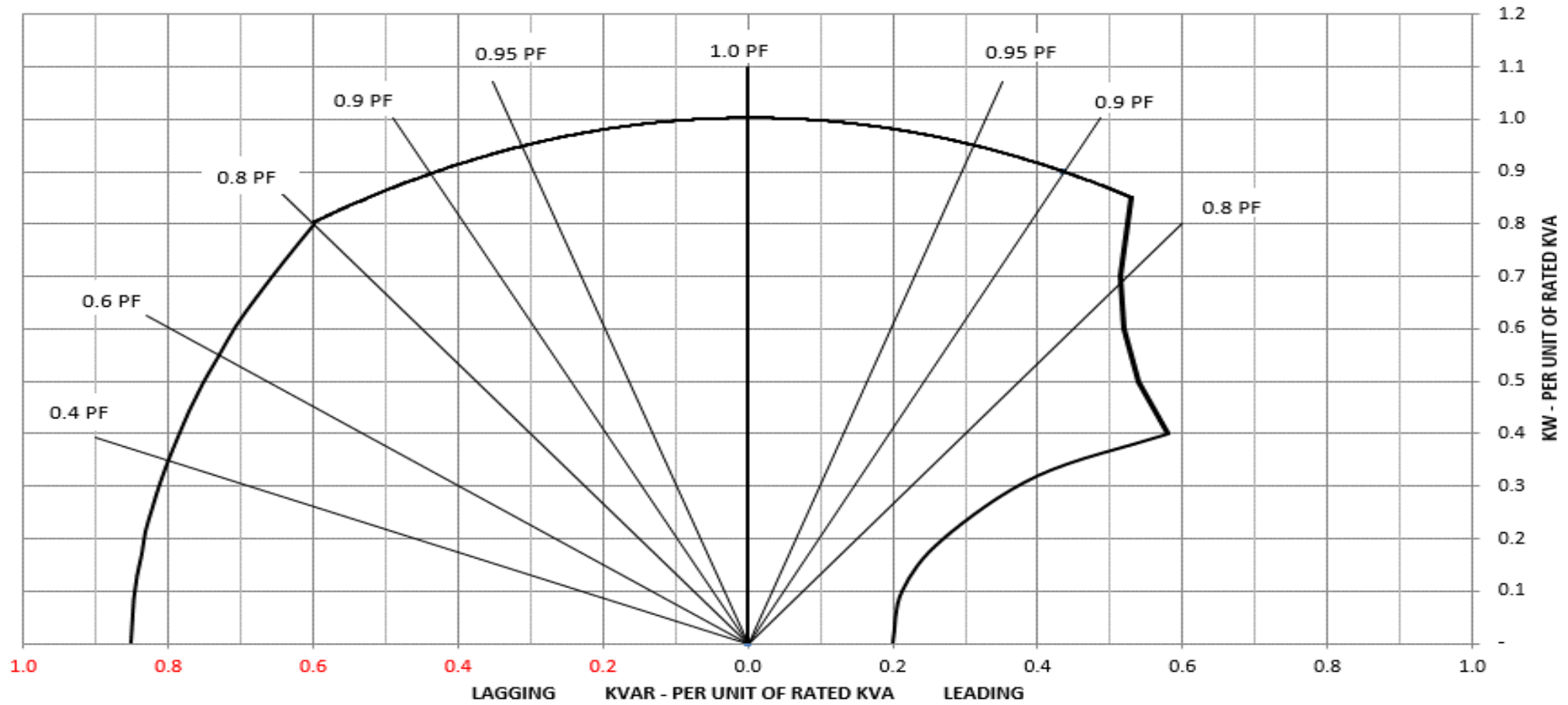
Symmetrical Component values, Maximum Asymmetrical Values Are 1.732 Times Symmetrical Values



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Typical Reactive Capability Curve

Date : 01/28/22



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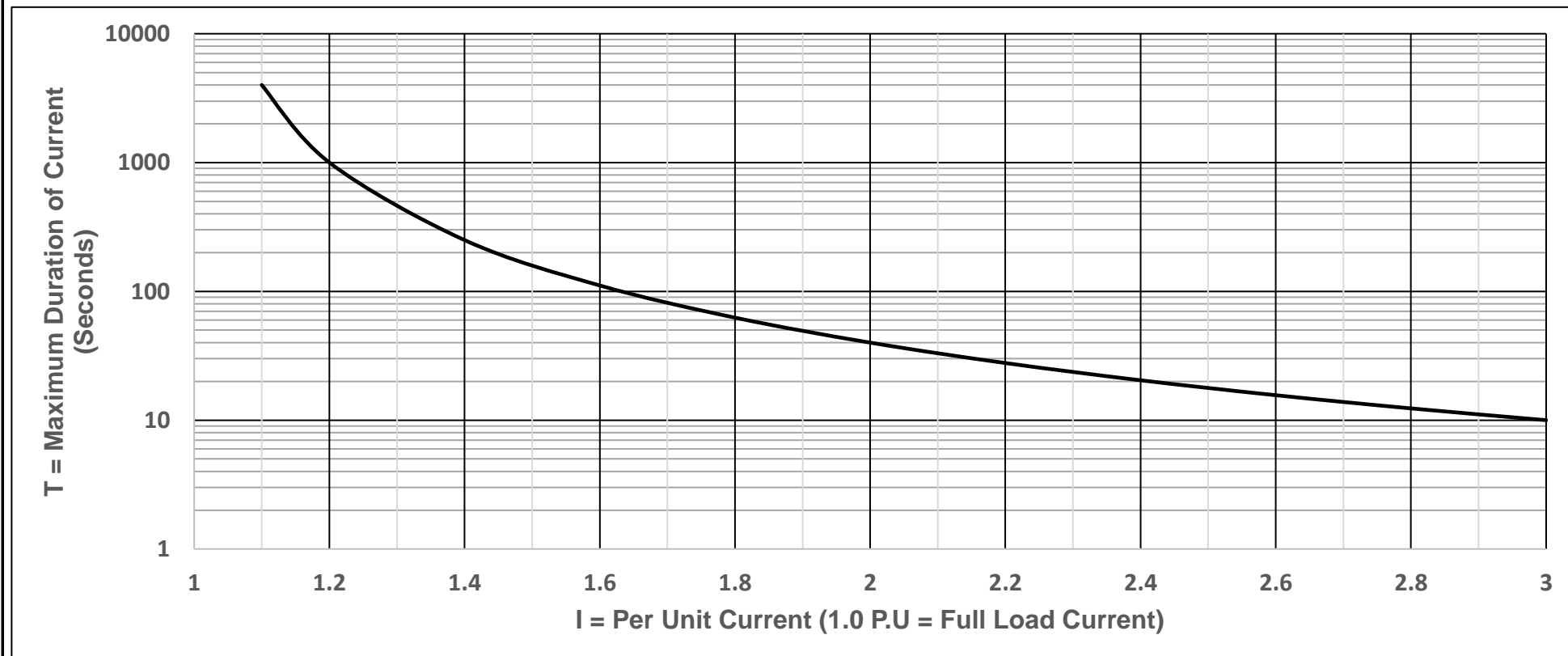
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THERMAL DAMAGE CURVE

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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