

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase

Product code : 12876270

Frame : 200L
Insulation class : F
Duty cycle : S1
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Design : N

Cooling method : IC411 - TEFC
Mounting : B3T
Rotation¹ : Both (CW and CCW)
Starting method : Direct On Line
Approx. weight³ : 228 kg
Moment of inertia (J) : 0.3202 kgm²

Output [kW]	30	30	30	30
Poles	4	4	4	4
Frequency [Hz]	50	50	50	60
Rated voltage [V]	380/660	400/690	415	460
Rated current [A]	58.0/33.4	57.1/33.1	56.4	50.0
L. R. Amperes [A]	423/244	428/248	440	415
LRC [A]	7.3	7.5	7.8	8.3
No load current [A]	24.5/14.1	27.0/15.7	29.3	25.6
Rated speed [RPM]	1480	1480	1485	1785
Slip [%]	1.33	1.33	1.00	0.83
Rated torque [kgfm]	19.7	19.7	19.7	16.4
Locked rotor torque [%]	250	280	300	340
Breakdown torque [%]	280	310	340	350
Service factor	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	16s (cold) 9s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)	19s (cold) 11s (hot)
Noise level ²	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	66.0 dB(A)
Efficiency (%)	25%			
	50%	93.4	92.9	92.3
	75%	93.6	93.6	93.3
	100%	93.6	93.6	93.6
Power Factor	25%			
	50%	0.68	0.63	0.59
	75%	0.79	0.75	0.72
	100%	0.84	0.81	0.79

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	6.6	6.6	6.6	6.1
	P2 (0,5;1,0)	5.8	5.8	5.8	5.3
	P3 (0,25;1,0)	5.4	5.4	5.4	5.0
	P4 (0,9;0,5)	3.1	3.1	3.1	2.9
	P5 (0,5;0,5)	2.3	2.3	2.3	2.1
	P6 (0,5;0,25)	1.5	1.5	1.5	1.4
	P7 (0,25;0,25)	1.1	1.1	1.1	1.0

Bearing type : Drive end 6312 ZZ C3 Non drive end 6212 ZZ C3
Sealing : V'Ring V'Ring
Lubrication interval : - -
Lubricant amount : - -
Lubricant type : 00088

Foundation loads
Max. traction : 606 kgf
Max. compression : 834 kgf

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Three Phase Induction Motor - Squirrel Cage



Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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TORQUE AND CURRENT VS SPEED CURVE

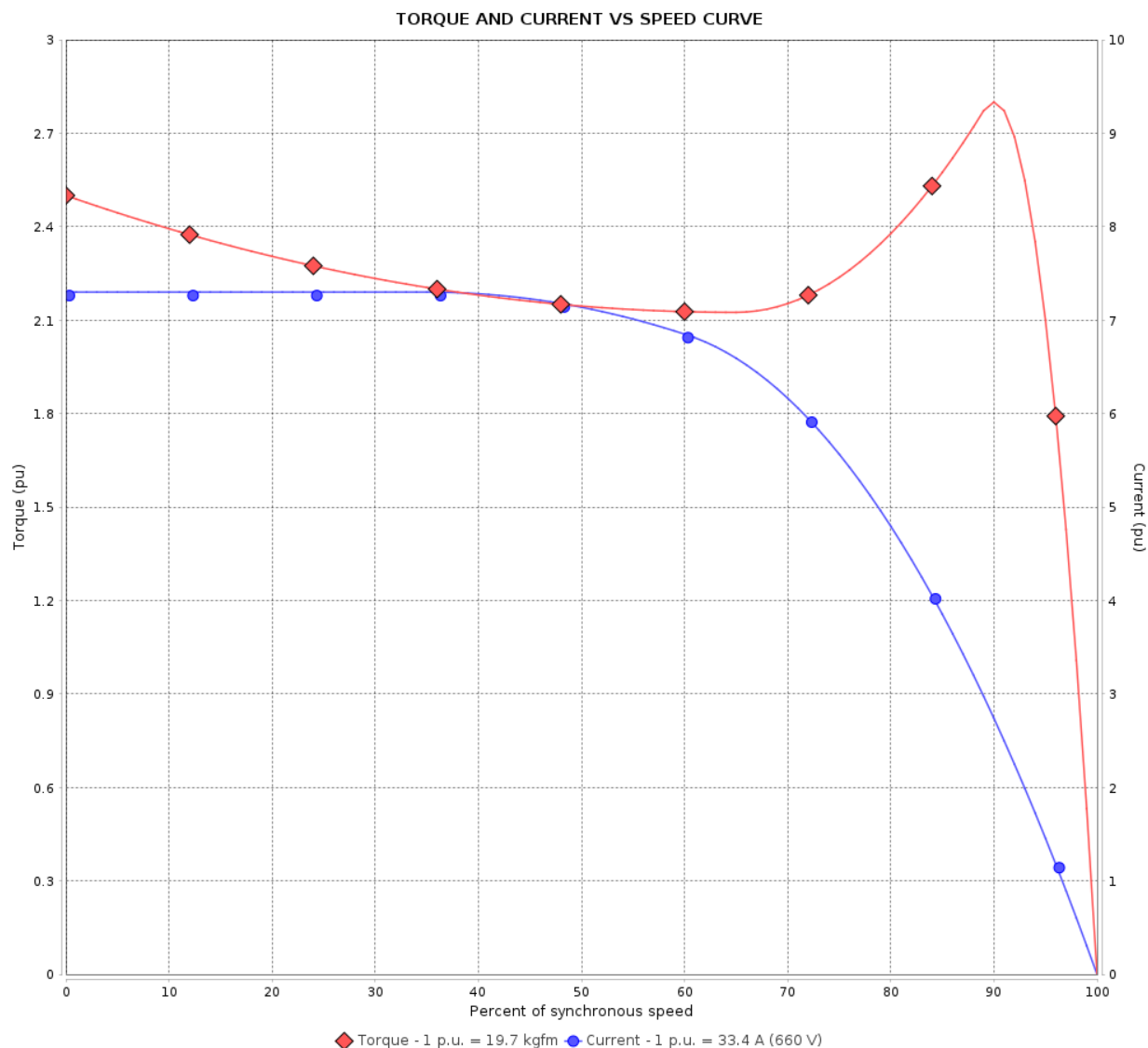
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase

Product code : 12876270



Performance : 380/660 V 50 Hz 4P

Rated current : 58.0/33.4 A
LRC : 7.3
Rated torque : 19.7 kgfm
Locked rotor torque : 250 %
Breakdown torque : 280 %
Rated speed : 1480 rpm

Moment of inertia (J) : 0.3202 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : N

Locked rotor time : 16s (cold) 9s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

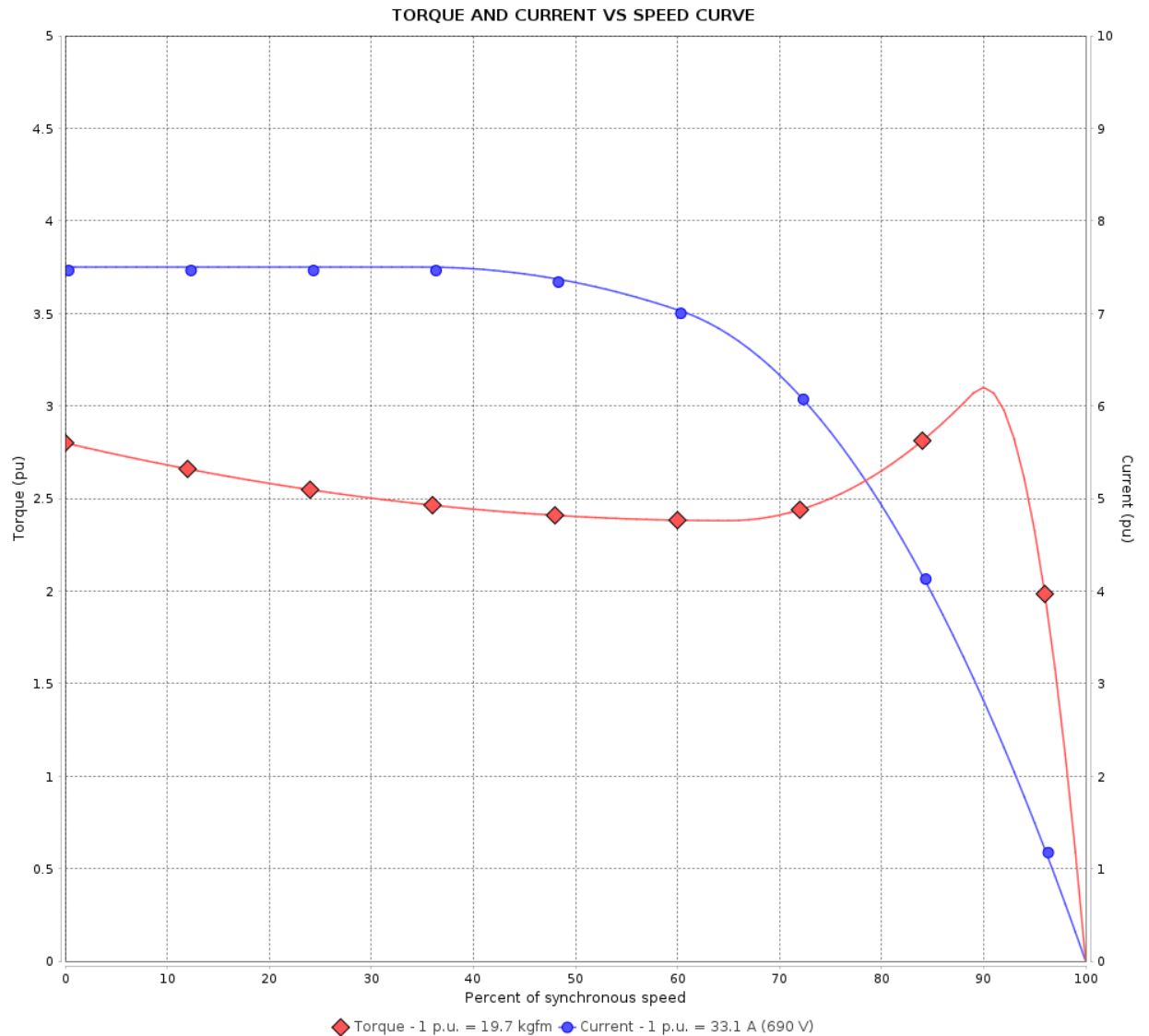
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase

Product code : 12876270



Performance : 400/690 V 50 Hz 4P

Rated current : 57.1/33.1 A
LRC : 7.5
Rated torque : 19.7 kgfm
Locked rotor torque : 280 %
Breakdown torque : 310 %
Rated speed : 1480 rpm

Moment of inertia (J) : 0.3202 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : N

Locked rotor time : 16s (cold) 9s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

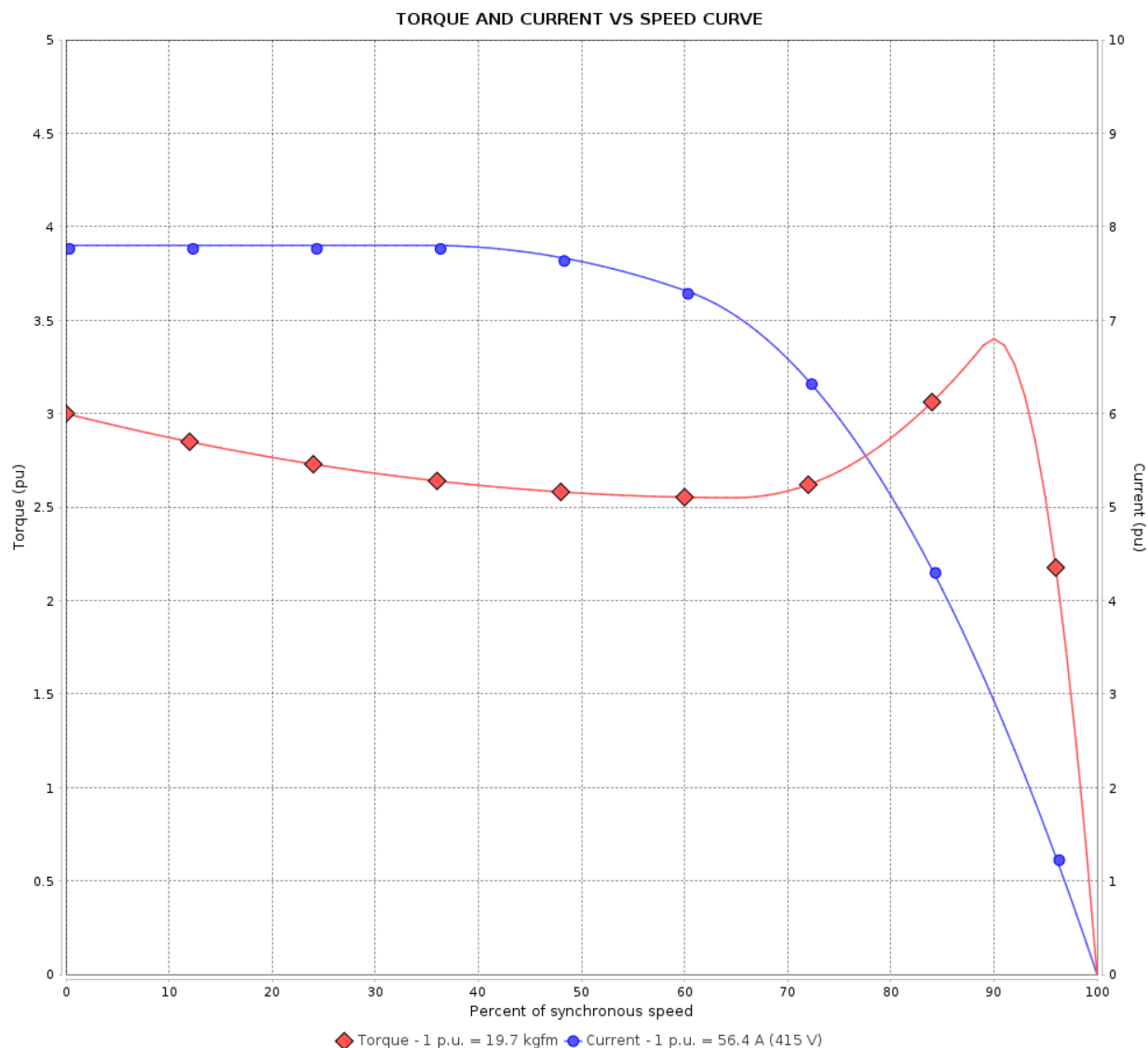
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase

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Performance : 415 V 50 Hz 4P

Rated current	: 56.4 A	Moment of inertia (J)	: 0.3202 kgm ²
LRC	: 7.8	Duty cycle	: S1
Rated torque	: 19.7 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: N

Locked rotor time : 14s (cold) 8s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

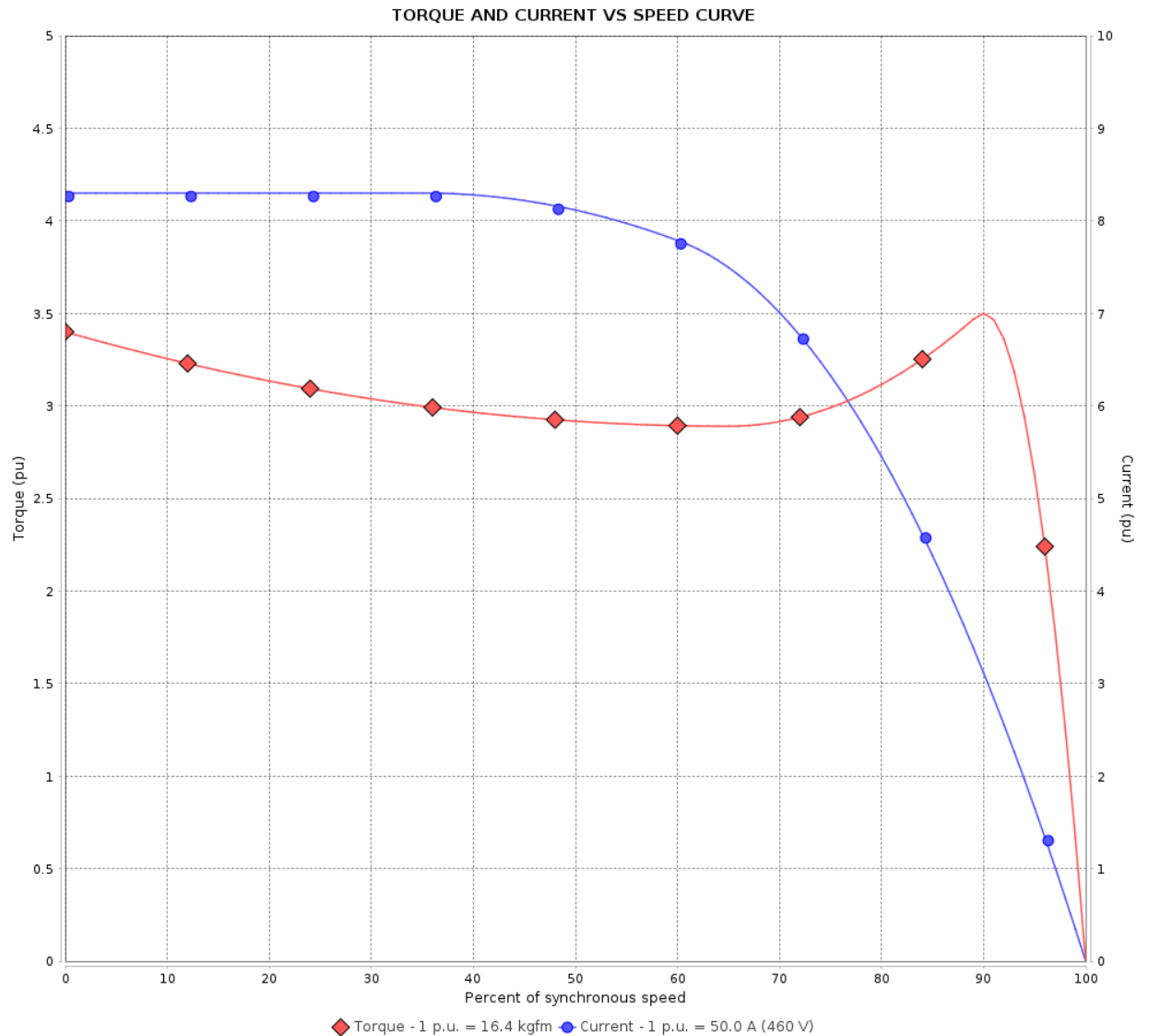
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase

Product code : 12876270



Performance : 460 V 60 Hz 4P

Rated current	: 50.0 A	Moment of inertia (J)	: 0.3202 kgm ²
LRC	: 8.3	Duty cycle	: S1
Rated torque	: 16.4 kgfm	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.00
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1785 rpm	Design	: N

Locked rotor time : 19s (cold) 11s (hot)

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LOAD PERFORMANCE CURVE

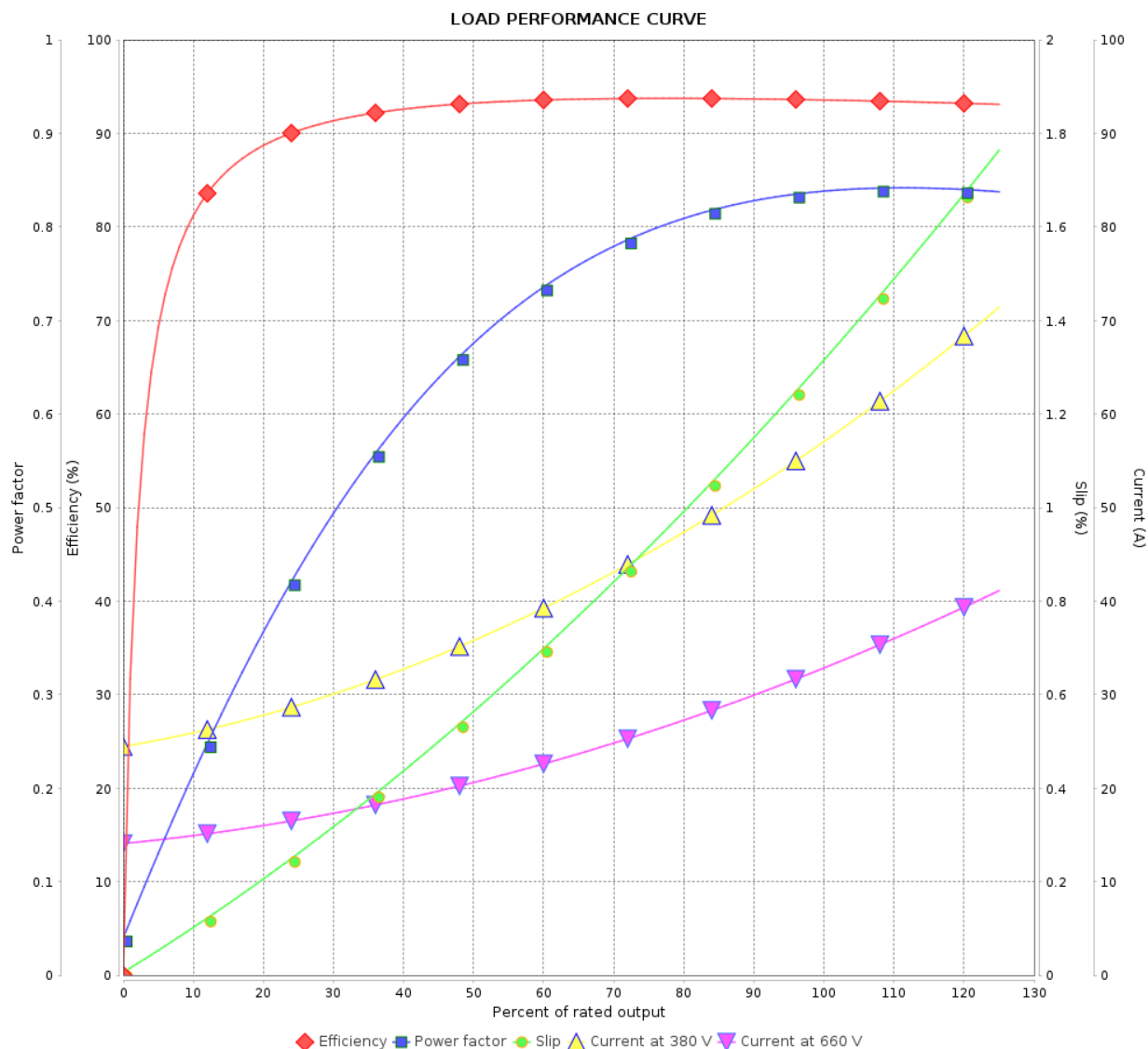
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Locked rotor torque : 250 %
Breakdown torque : 280 %
Rated speed : 1480 rpm

Moment of inertia (J) : 0.3202 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : N

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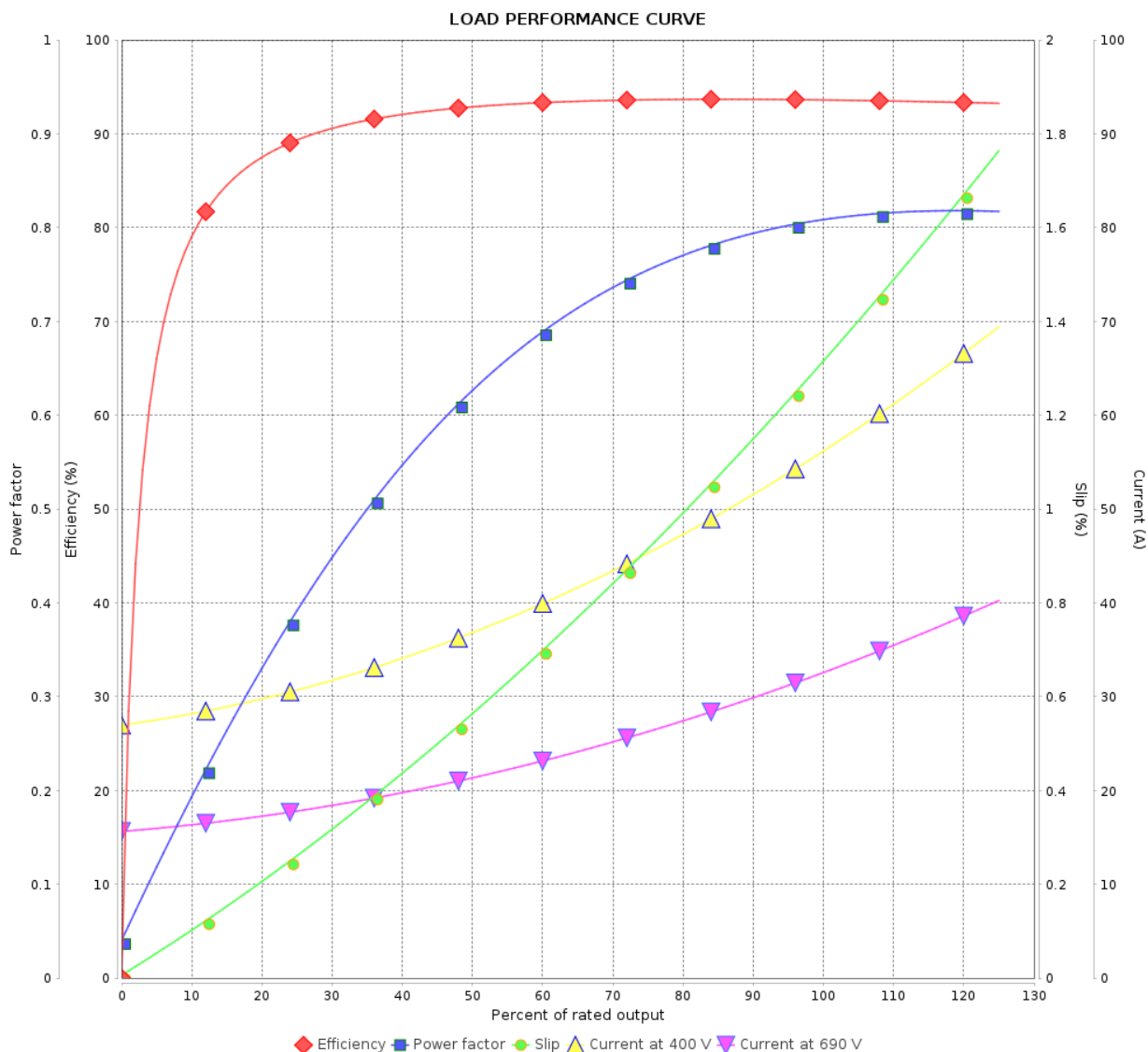
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 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

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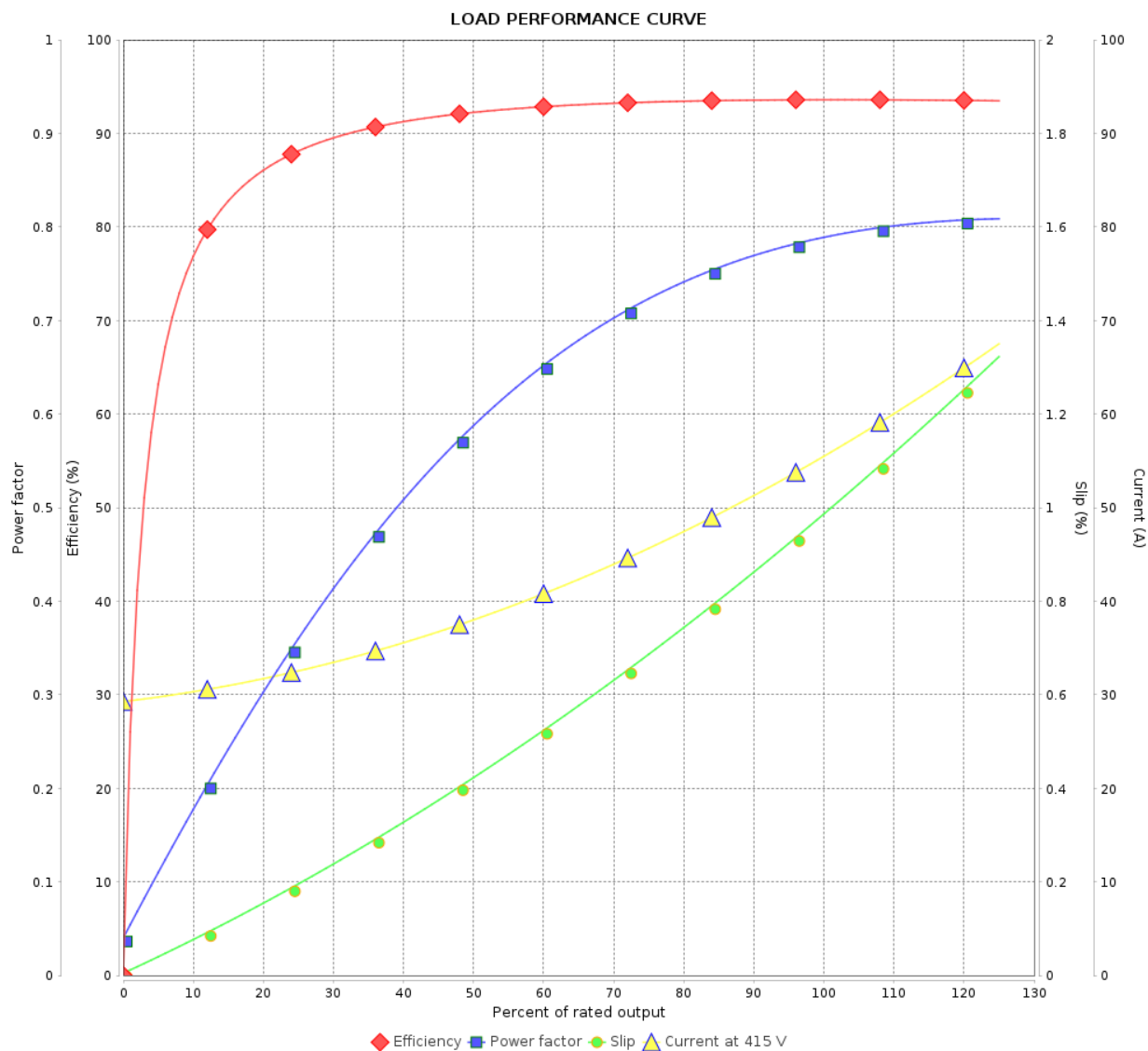
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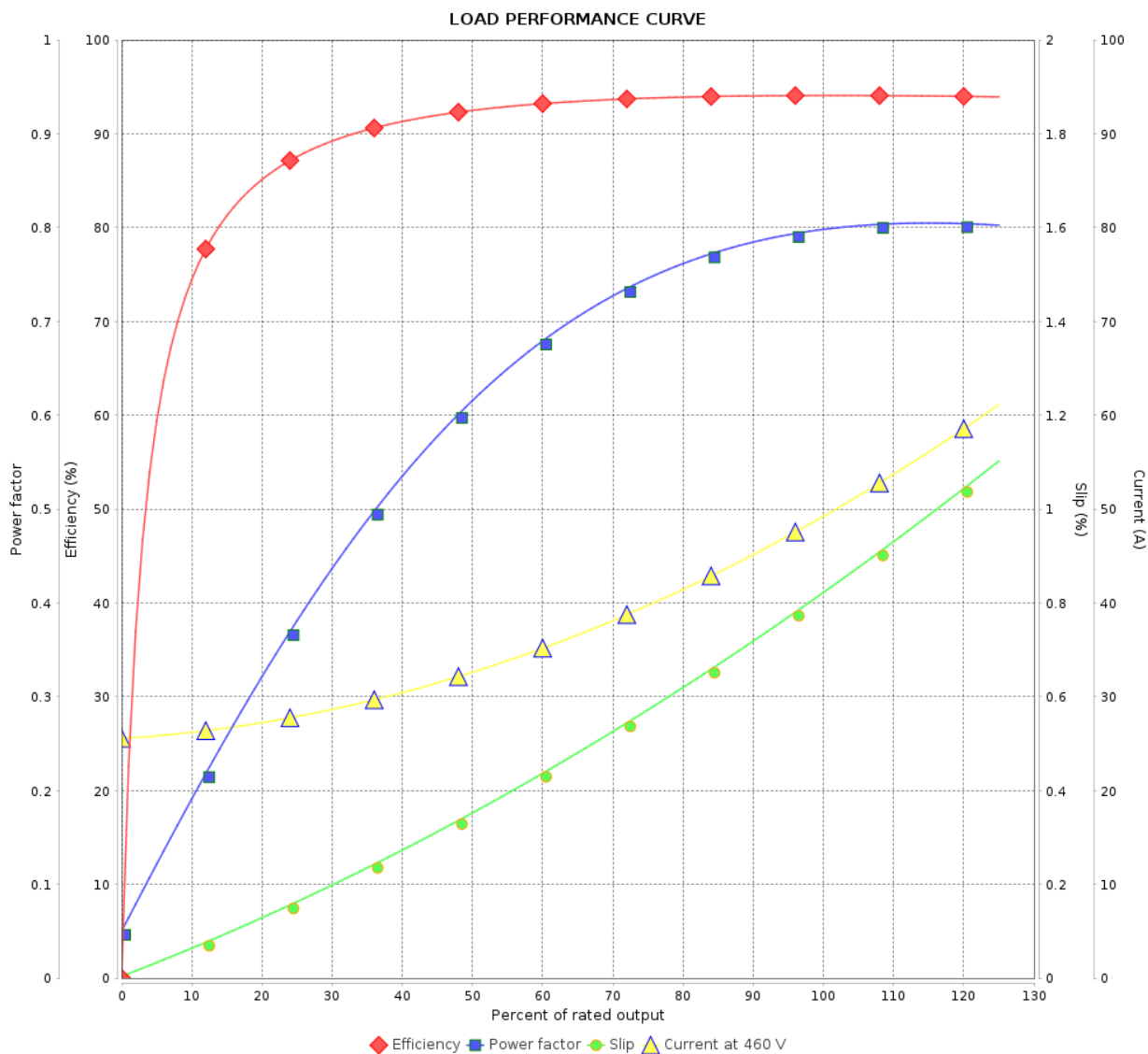
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THERMAL LIMIT CURVE

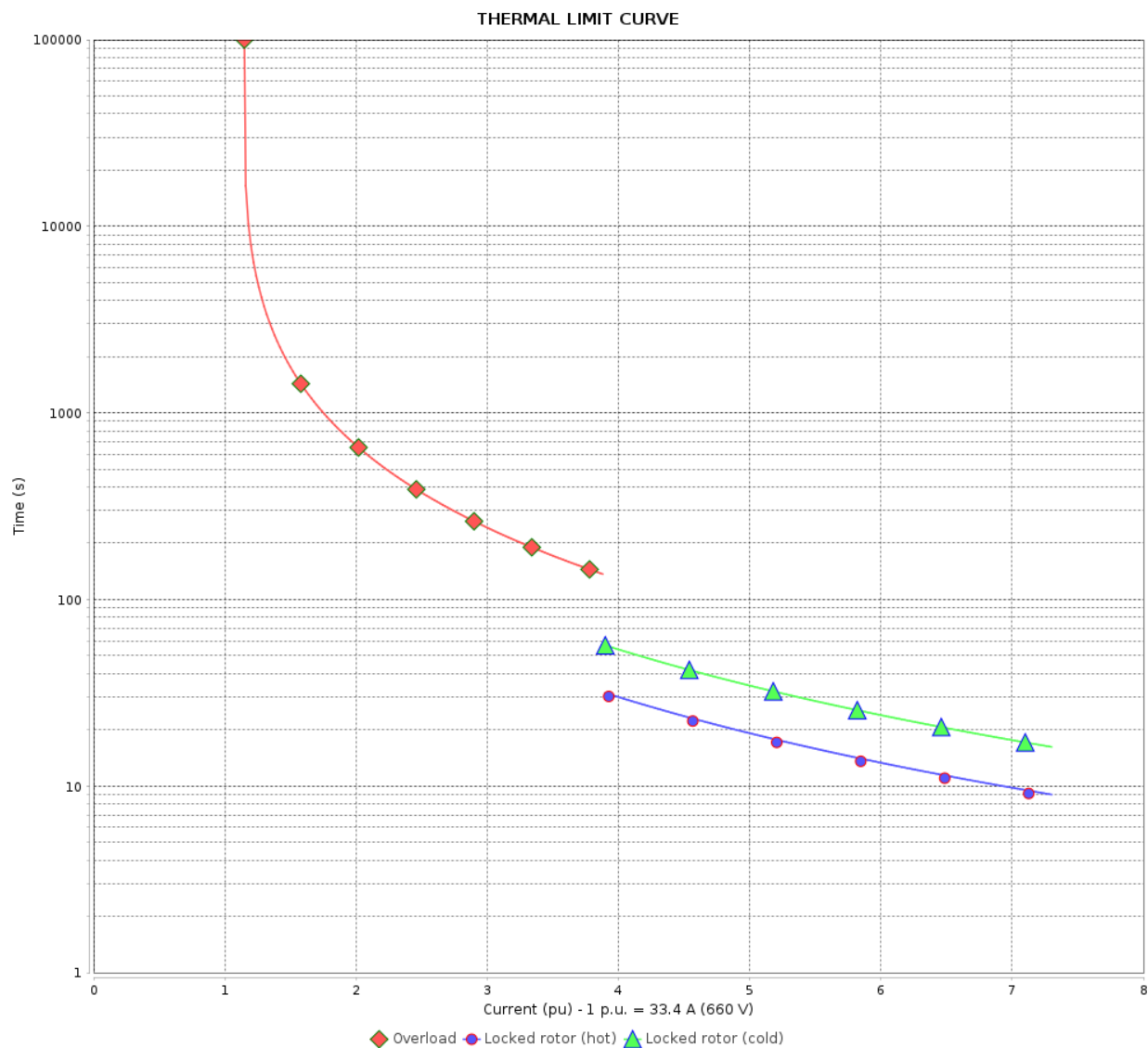
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Temperature rise : 80 K
Design : N

Heating constant

Cooling constant

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THERMAL LIMIT CURVE

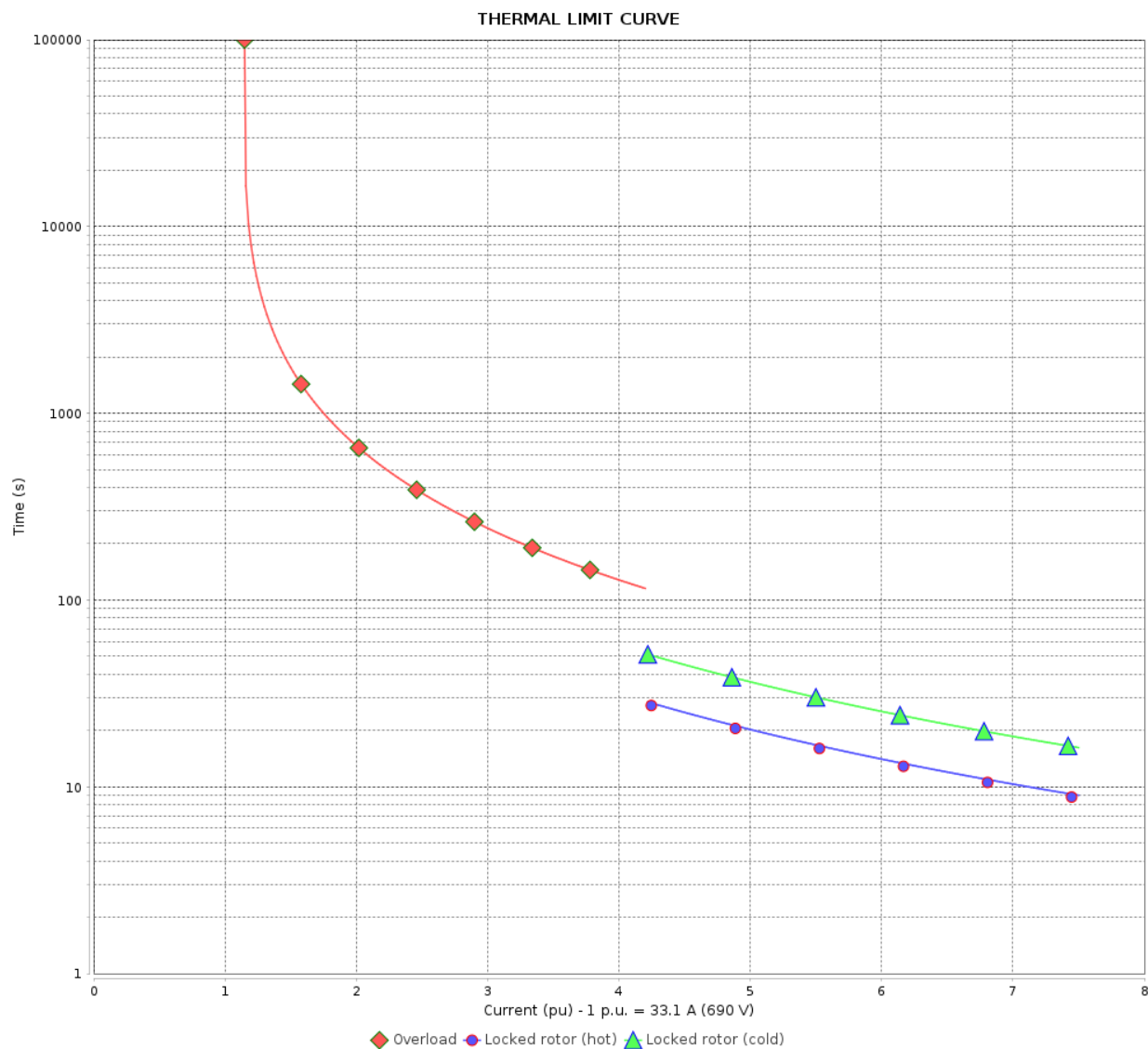
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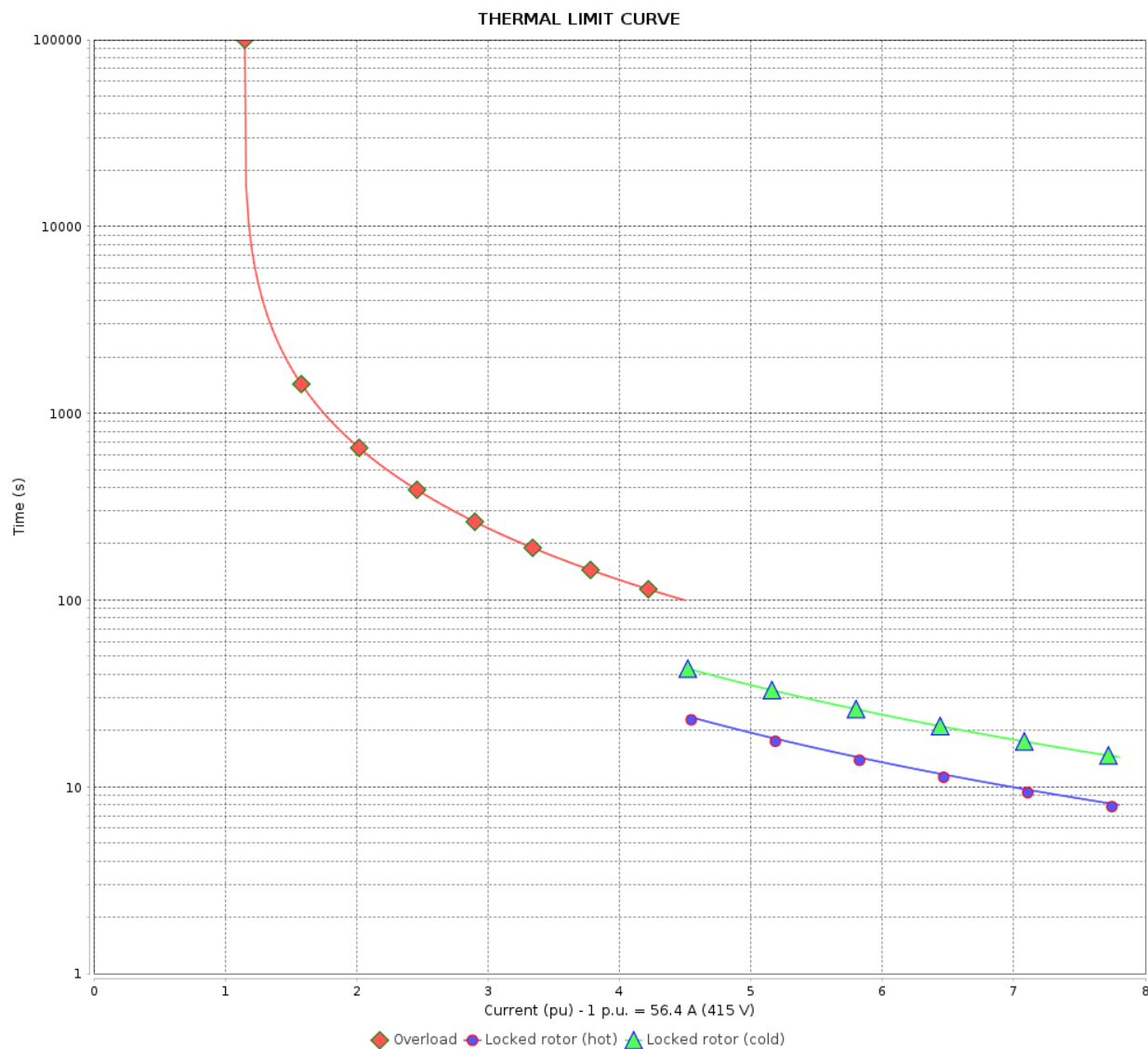
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Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: N

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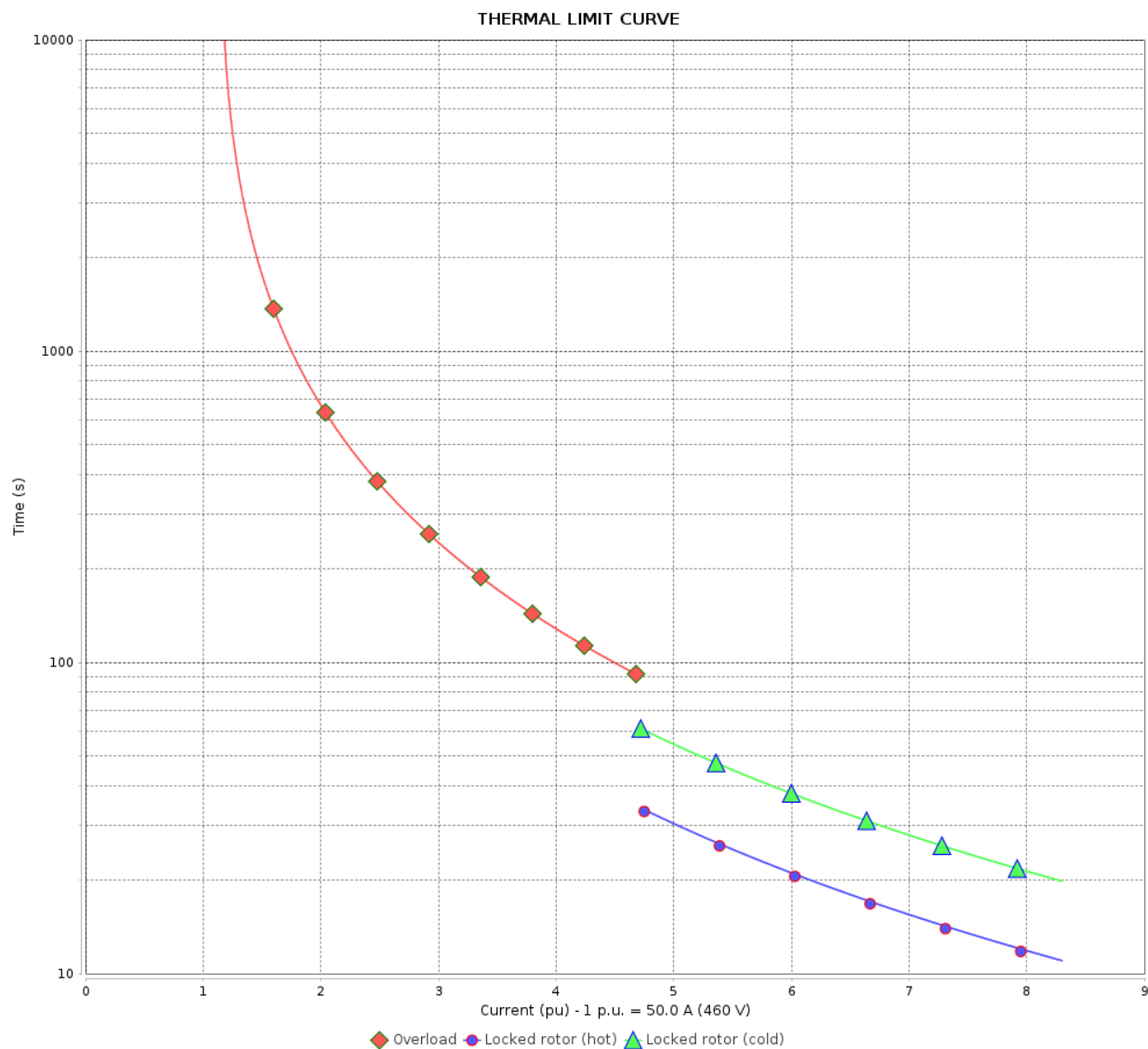
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 Duty cycle : S1
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 Service factor : 1.00
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Cooling constant

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VFD OPERATION CURVE

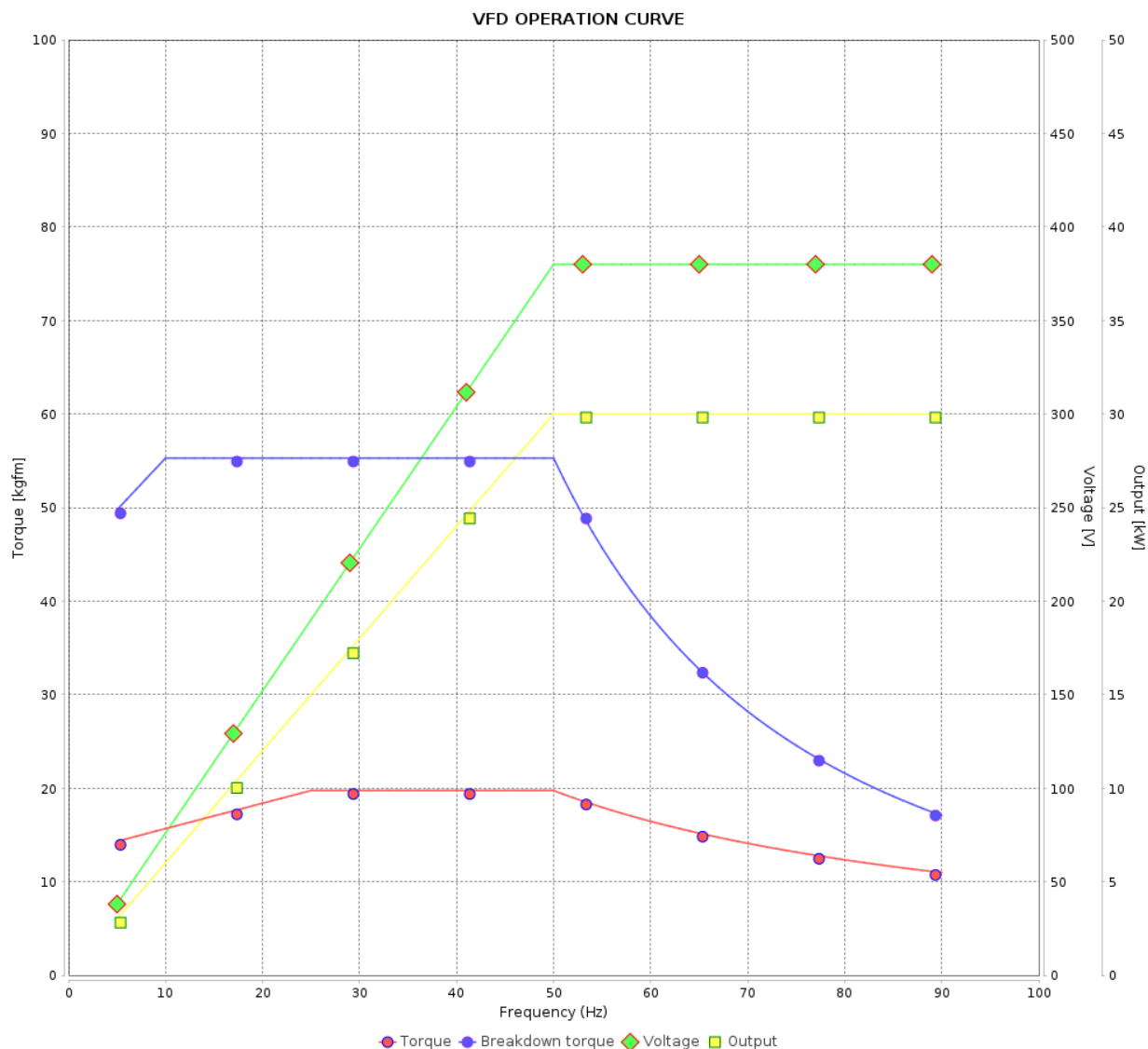
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VFD OPERATION CURVE

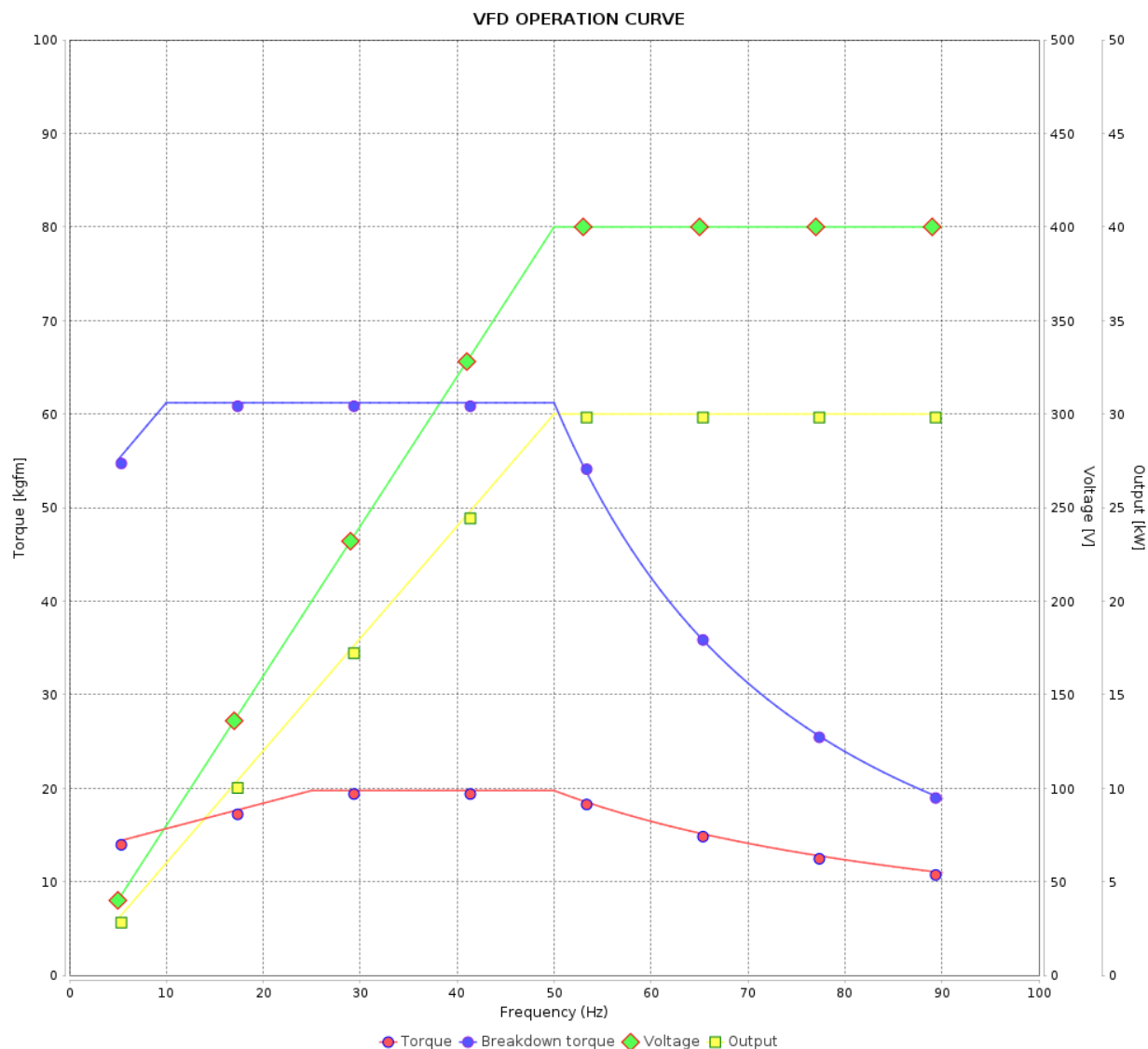
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VFD OPERATION CURVE

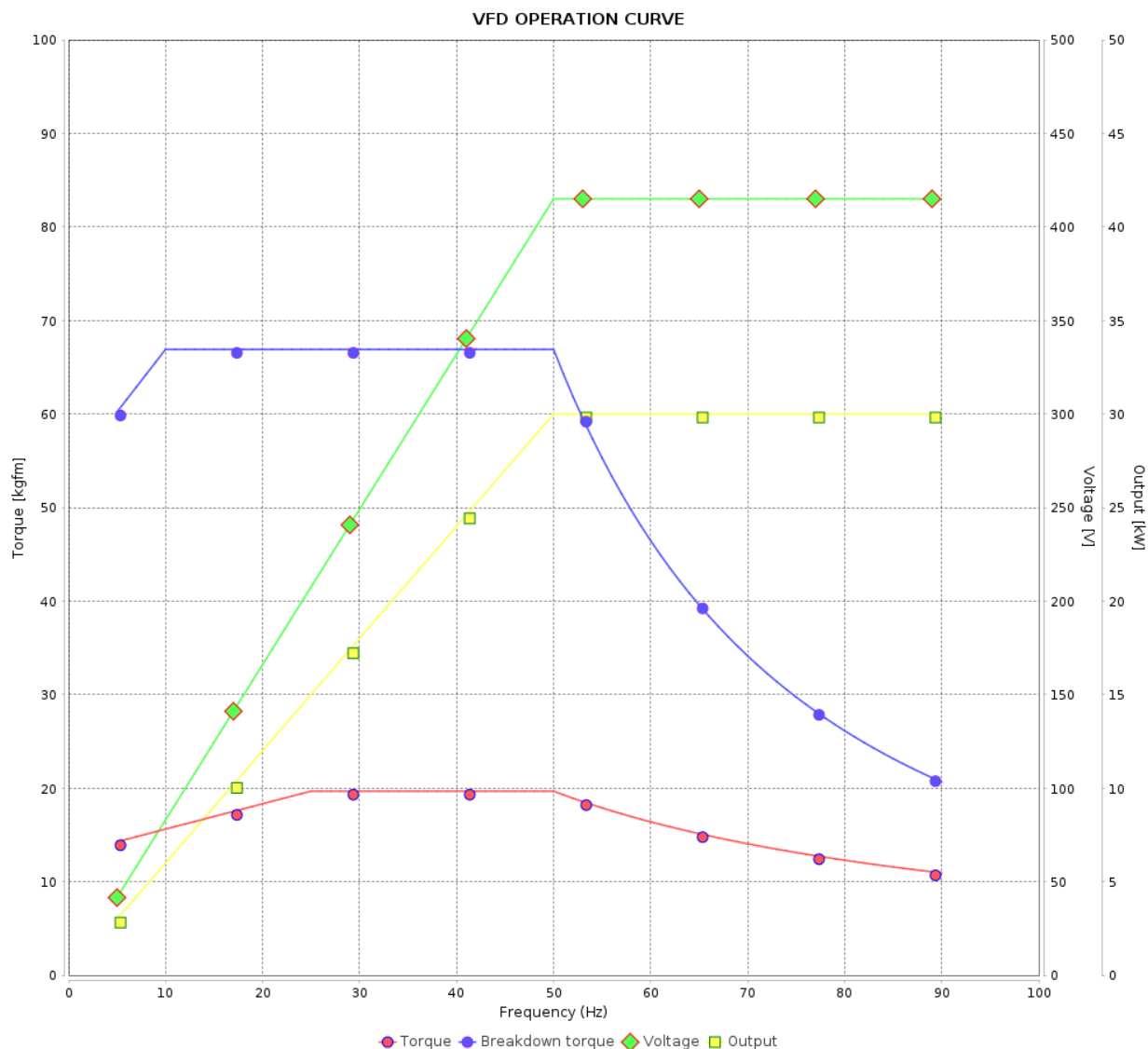
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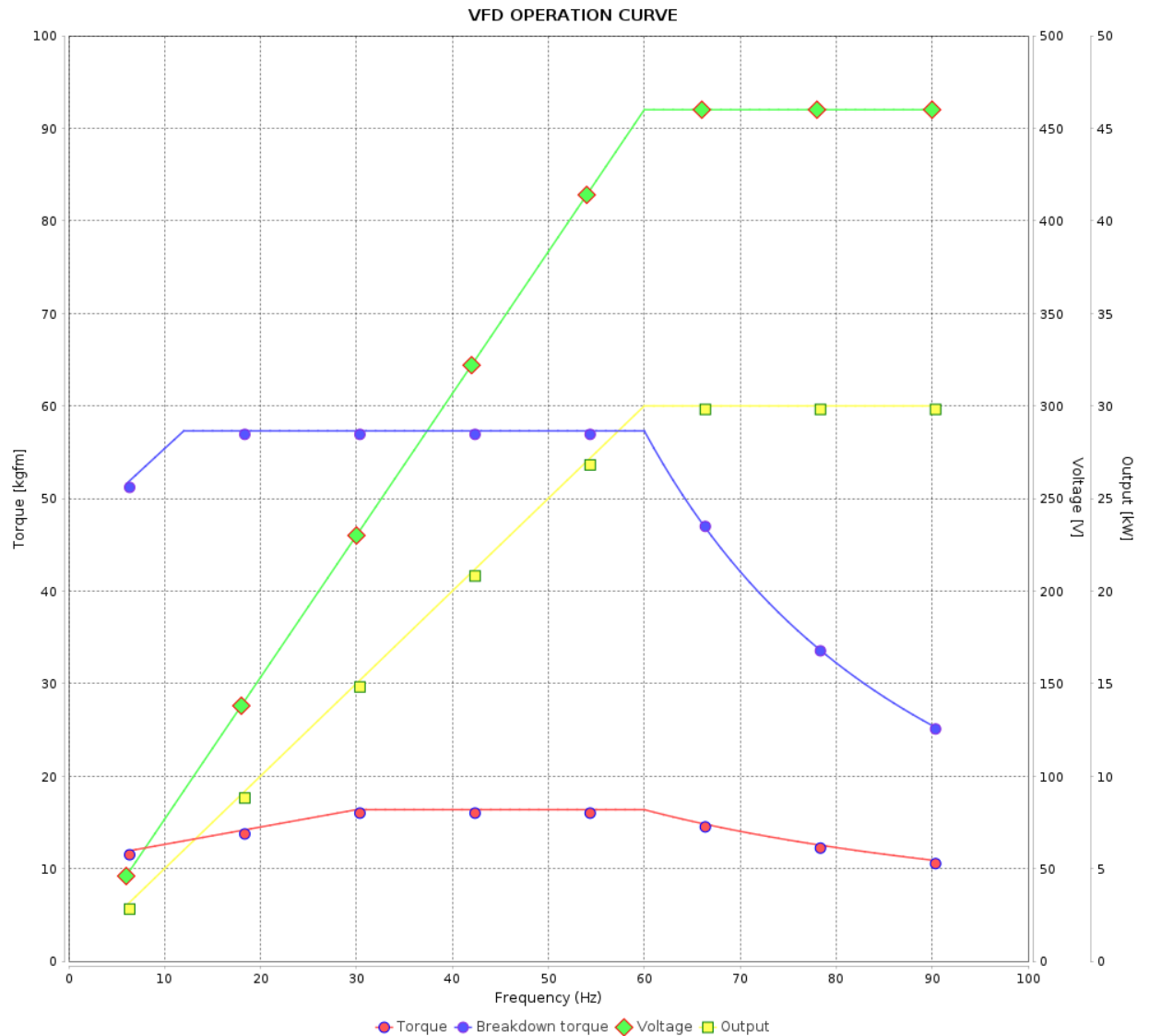
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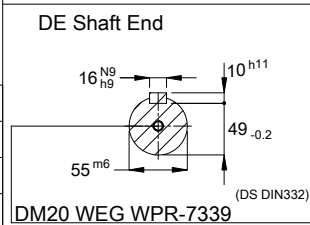
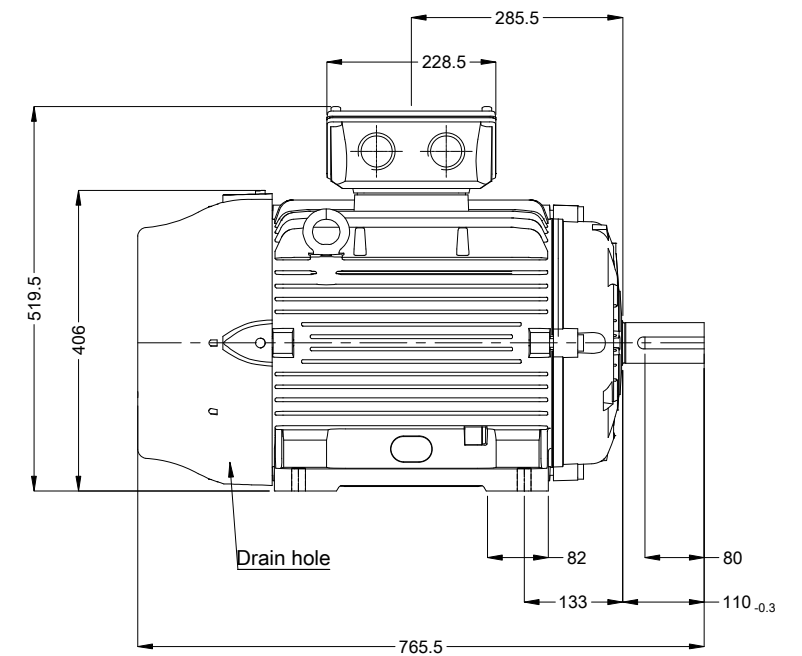
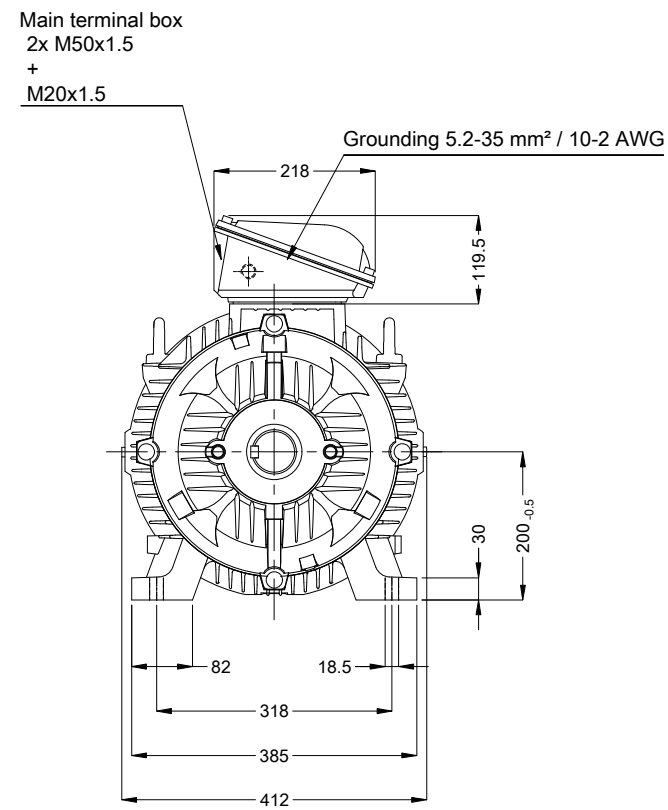
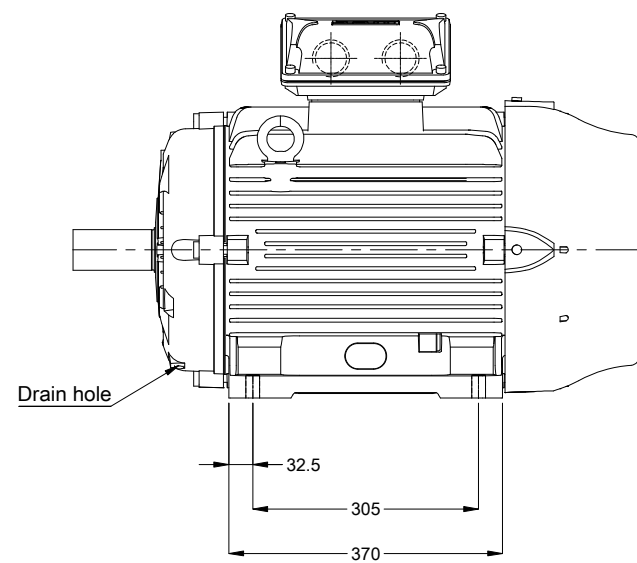


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30 kW 04 Poles 50 Hz										A
						Scale 1 : 10				
						HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 IE3 FRAME 200L IP55 TEFC				PREVIEW			
CHECKED							WDD 00			
RELEASED										
REL. DATE							SHEET 1 / 1			