

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12447102
Catalog # : HT025402NPW22

Frame : 284/6TS	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : F-1
Duty cycle : Cont.(S1)	Rotation ¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight ³ : 362 lb
Protection degree : IP55	Moment of inertia (J) : 2.69 sq.ft.lb
Design : B	

Output [HP]	25	20	20	20	25	25	25
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	58.2/29.1	28.2	27.1	26.4	35.7	33.6	32.5
L. R. Amperes [A]	367/183	175	187	198	175	185	202
LRC [A]	6.3x(Code G)	6.2x(Code G)	6.9x(Code H)	7.5x(Code J)	4.9x(Code E)	5.5x(Code F)	6.2x(Code G)
No load current [A]	17.2/8.60	8.10	9.00	9.50	8.10	9.00	9.50
Rated speed [RPM]	3550	2945	2955	2960	2925	2930	2940
Slip [%]	1.39	1.83	1.50	1.33	2.50	2.33	2.00
Rated torque [ft.lb]	37.0	35.7	35.5	35.5	44.9	44.8	44.7
Locked rotor torque [%]	200	200	229	240	160	180	190
Breakdown torque [%]	229	220	240	260	170	190	210
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time	30s (cold) 17s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level ²	72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
Efficiency (%)	25%	0.000					
	50%	91.0	90.2	90.3	89.8	91.0	91.0
	75%	91.7	90.7	91.1	91.1	90.2	91.0
	100%	91.7	91.9	91.9	91.9	89.5	90.2
Power Factor	25%	0.00					
	50%	0.77	0.79	0.76	0.73	0.82	0.78
	75%	0.84	0.85	0.84	0.82	0.87	0.86
	100%	0.87	0.88	0.87	0.86	0.88	0.88

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

Losses (%)	P1 (0,9;1,0)	8.6	8.4	8.4	8.4	11.2	10.4	9.4
	P2 (0,5;1,0)	6.8	6.6	6.6	6.6	8.8	8.1	7.4
	P3 (0,25;1,0)	5.9	5.8	5.8	5.8	7.7	7.1	6.5
	P4 (0,9;0,5)	4.4	4.3	4.3	4.3	5.7	5.3	4.8
	P5 (0,5;0,5)	2.6	2.5	2.5	2.5	3.4	3.1	2.9
	P6 (0,5;0,25)	1.7	1.6	1.6	1.6	2.2	2.0	1.8
	P7 (0,25;0,25)	1.0	1.0	1.0	1.0	1.3	1.2	1.1

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6311 C3	6211 C3	Max. traction : 228 lb
Sealing :	V'Ring	V'Ring	Max. compression : 589 lb
Lubrication interval :	14000 h	17000 h	
Lubricant amount :	18 g	11 g	
Lubricant type :	Mobil Polyrex EM		

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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Notes

USABLE @208V 63.0A SF 1.10 SFA 69.3A

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 NEMA MG-1.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

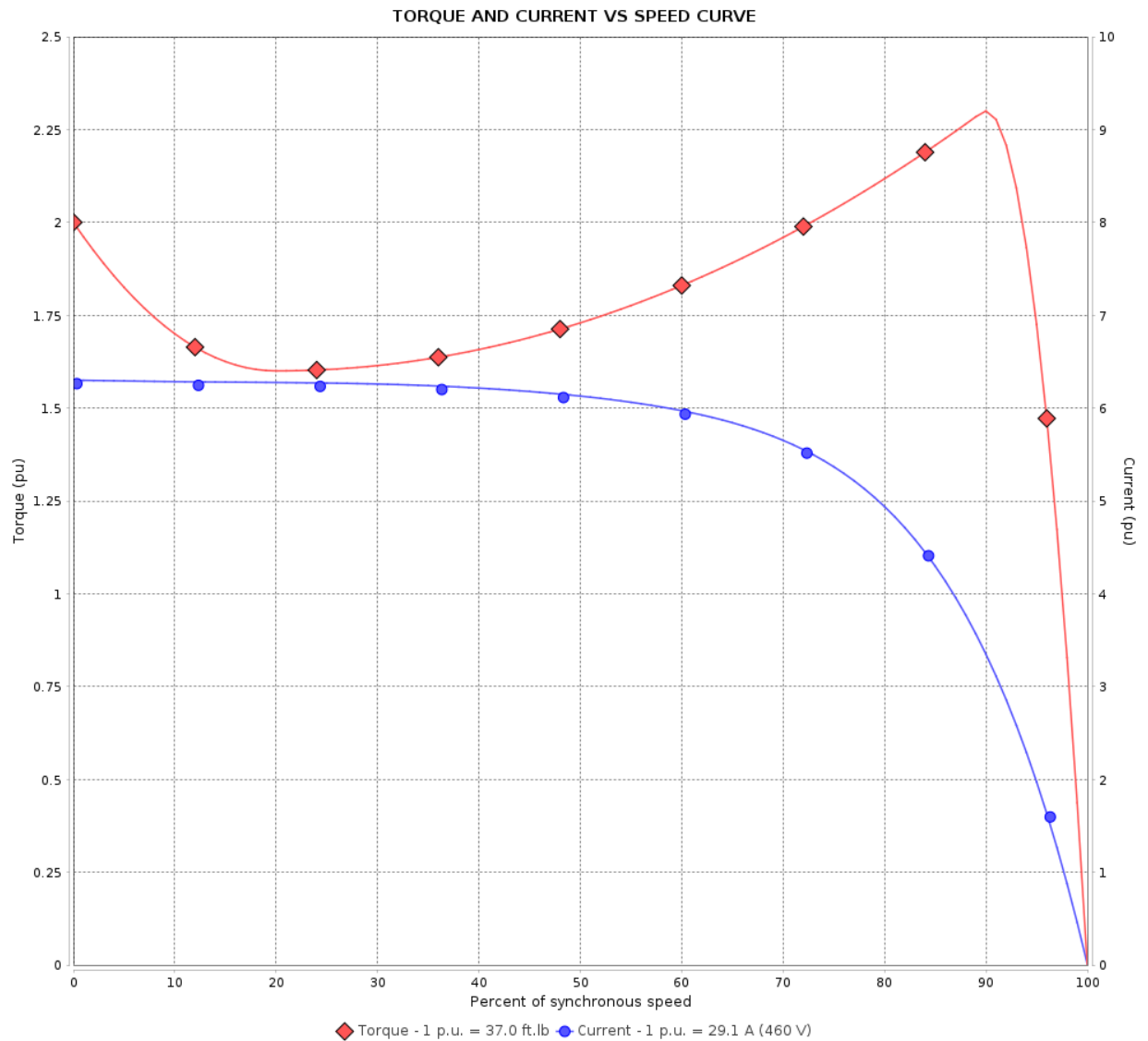


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12447102

Catalog # : HT025402NPW22



Performance : 230/460 V 60 Hz 2P

Rated current : 58.2/29.1 A
LRC : 6.3
Rated torque : 37.0 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 229 %
Rated speed : 3550 rpm

Moment of inertia (J) : 2.69 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Duty cycle : Cont.(S1)

Locked rotor time : 30s (cold) 17s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

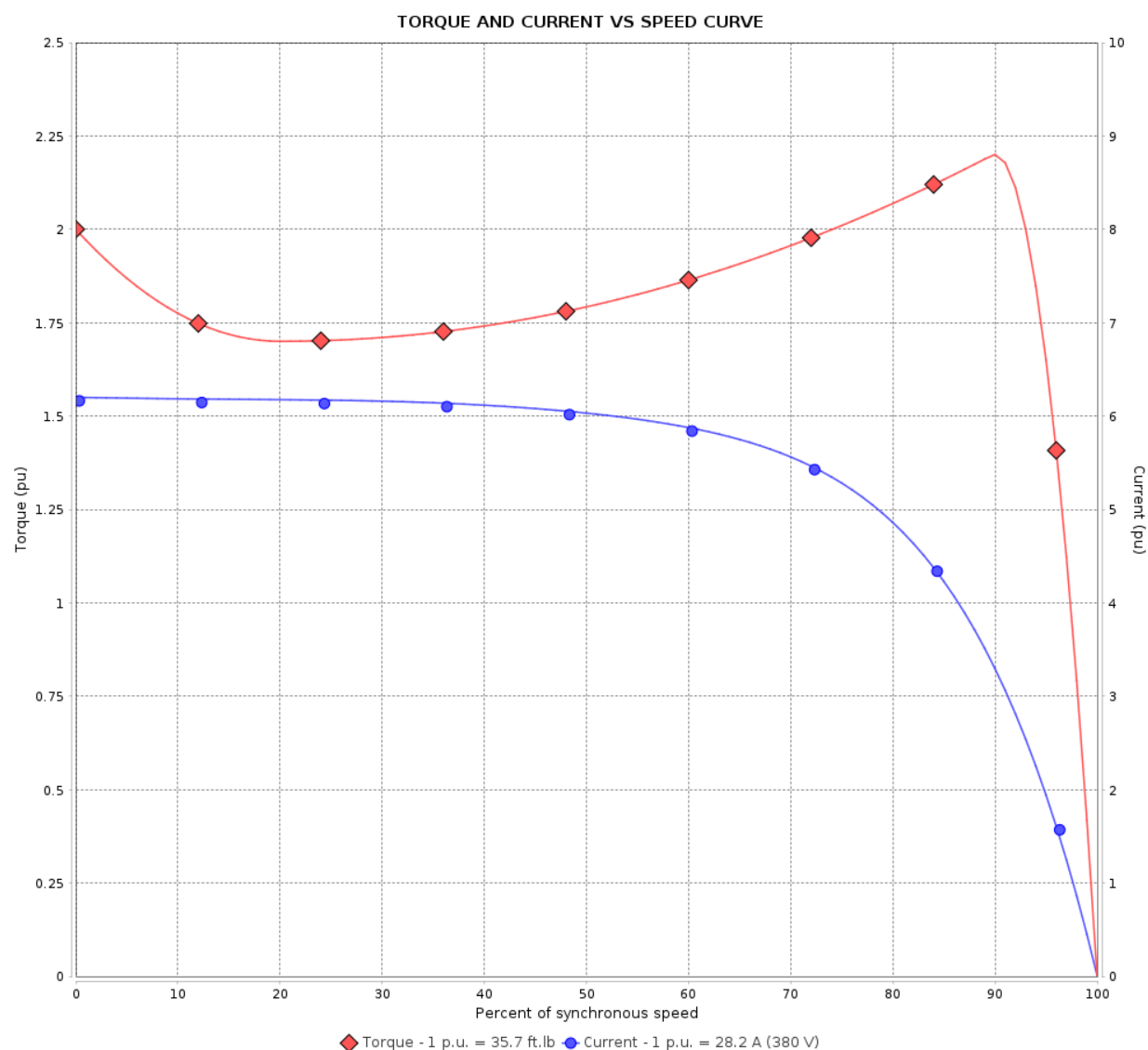


Customer :

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Performance : 380 V 50 Hz 2P IE3

Rated current : 28.2 A
LRC : 6.2
Rated torque : 35.7 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 220 %
Rated speed : 2945 rpm

Moment of inertia (J) : 2.69 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Duty cycle : Cont.(S1)

Locked rotor time : 25s (cold) 14s (hot)

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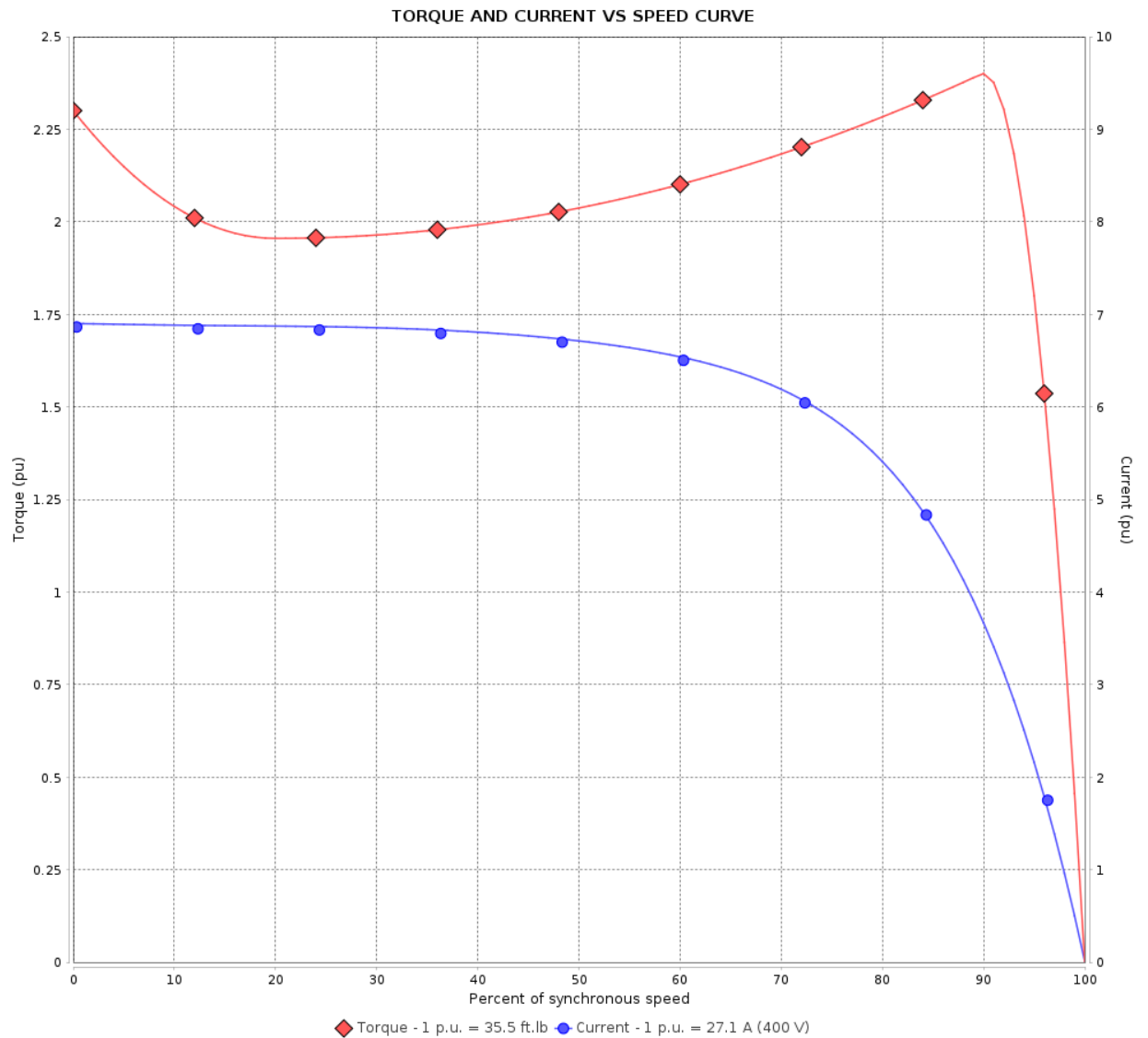


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

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Performance : 400 V 50 Hz 2P IE3

Rated current : 27.1 A
LRC : 6.9
Rated torque : 35.5 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 240 %
Rated speed : 2955 rpm

Moment of inertia (J) : 2.69 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Duty cycle : Cont.(S1)

Locked rotor time : 25s (cold) 14s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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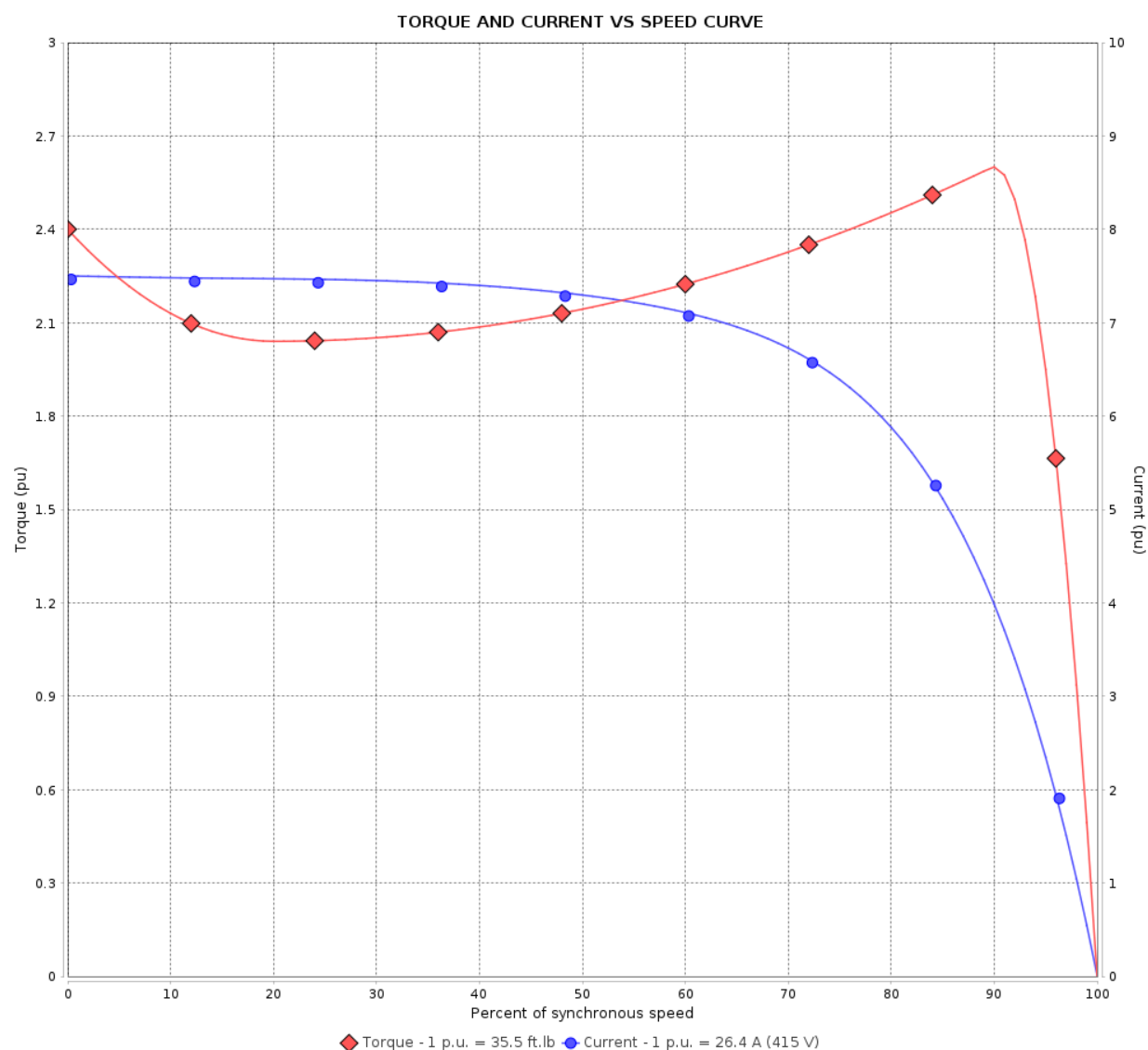


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Performance : 415 V 50 Hz 2P IE3

Rated current : 26.4 A
LRC : 7.5
Rated torque : 35.5 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 260 %
Rated speed : 2960 rpm

Moment of inertia (J) : 2.69 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Duty cycle : Cont.(S1)

Locked rotor time : 25s (cold) 14s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

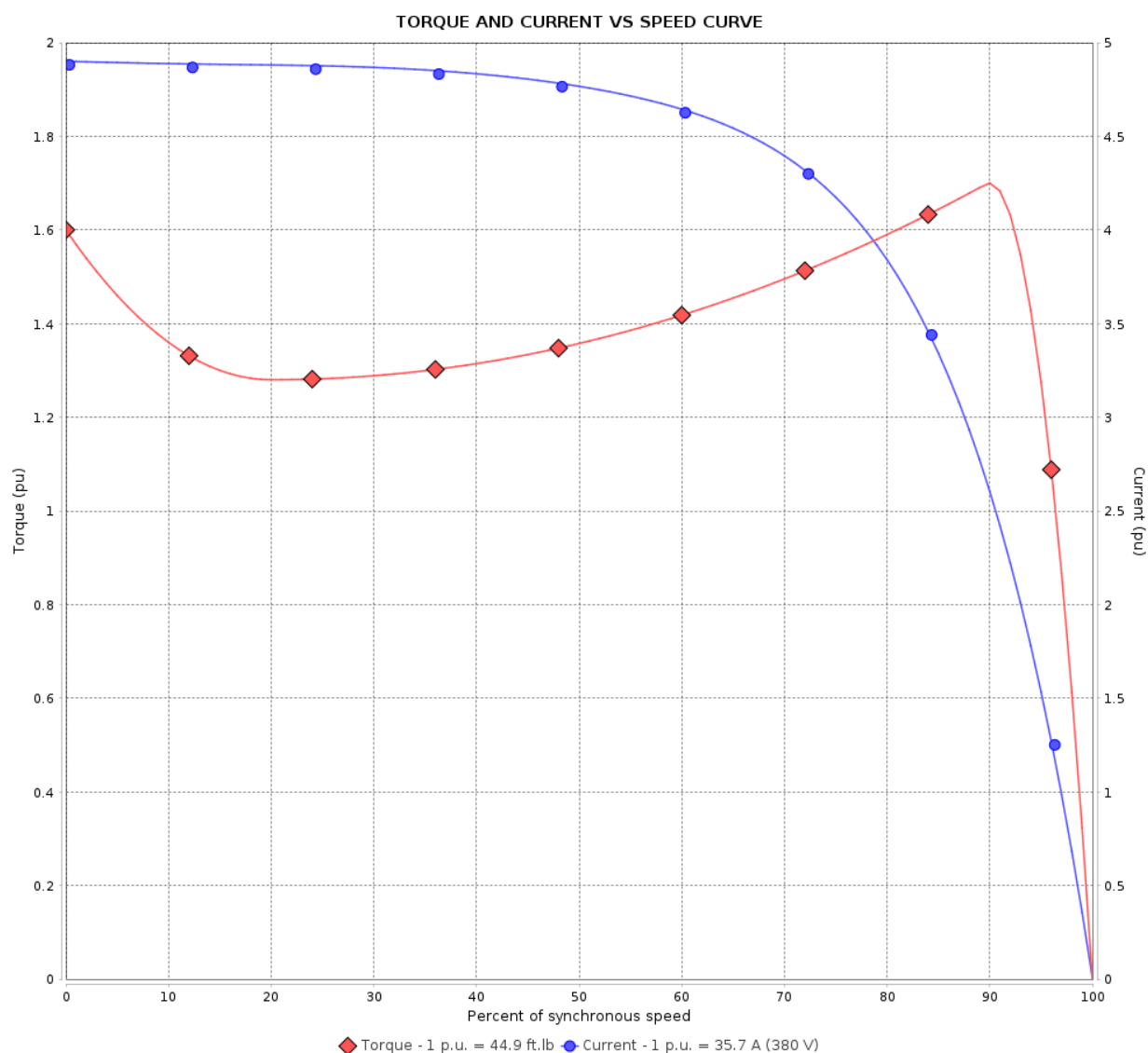


Customer :

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Performance : 380 V 50 Hz 2P IE1

Rated current : 35.7 A
LRC : 4.9
Rated torque : 44.9 ft.lb
Locked rotor torque : 160 %
Breakdown torque : 170 %
Rated speed : 2925 rpm

Moment of inertia (J) : 2.69 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Duty cycle : Cont.(S1)

Locked rotor time : 25s (cold) 14s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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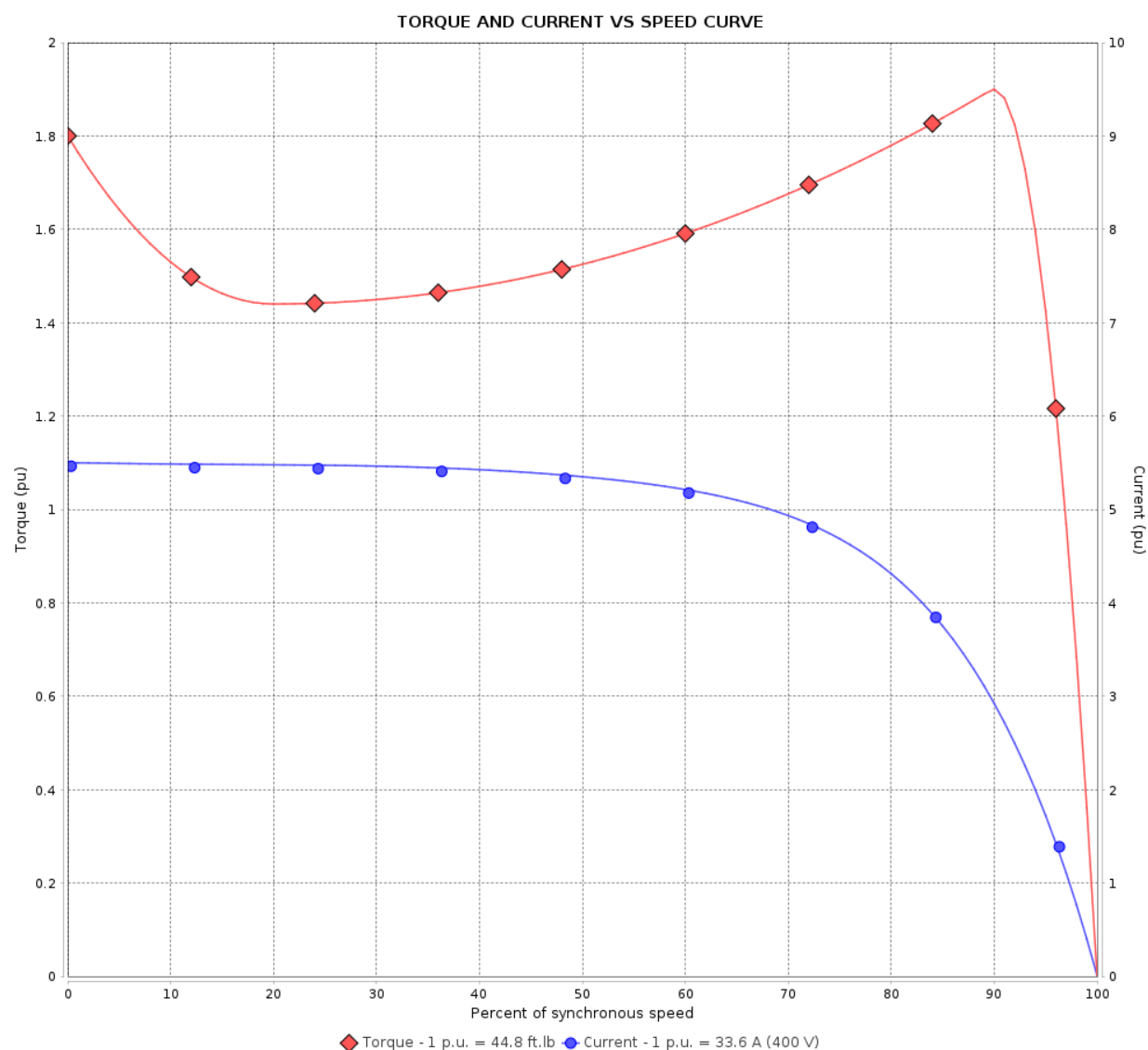


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Performance : 400 V 50 Hz 2P IE1

Rated current : 33.6 A
LRC : 5.5
Rated torque : 44.8 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 190 %
Rated speed : 2930 rpm

Moment of inertia (J) : 2.69 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Duty cycle : Cont.(S1)

Locked rotor time : 25s (cold) 14s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

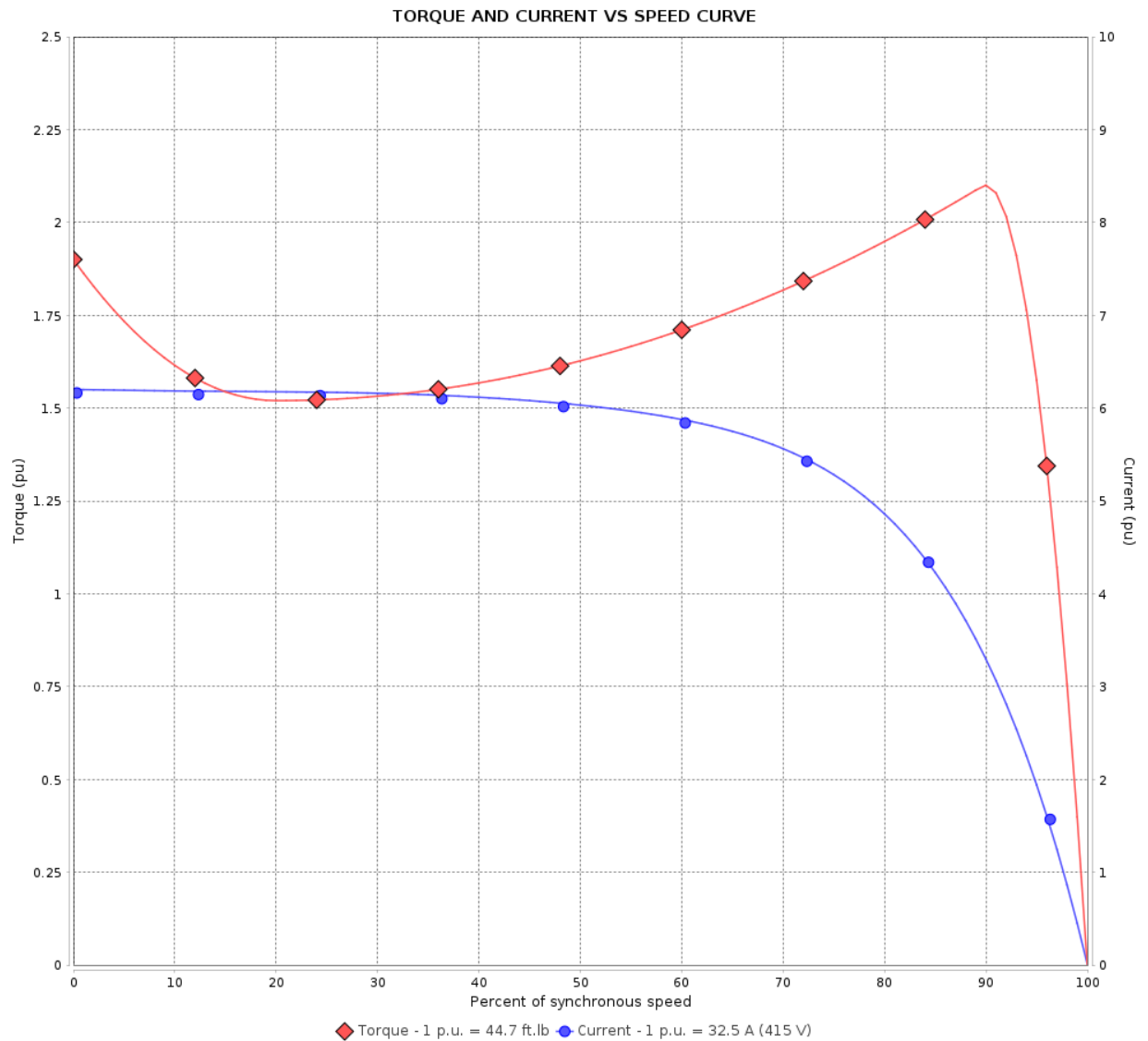


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Performance : 415 V 50 Hz 2P IE2

Rated current	: 32.5 A	Moment of inertia (J)	: 2.69 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 44.7 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 210 %	Duty cycle	: Cont.(S1)
Rated speed	: 2940 rpm		

Locked rotor time : 25s (cold) 14s (hot)

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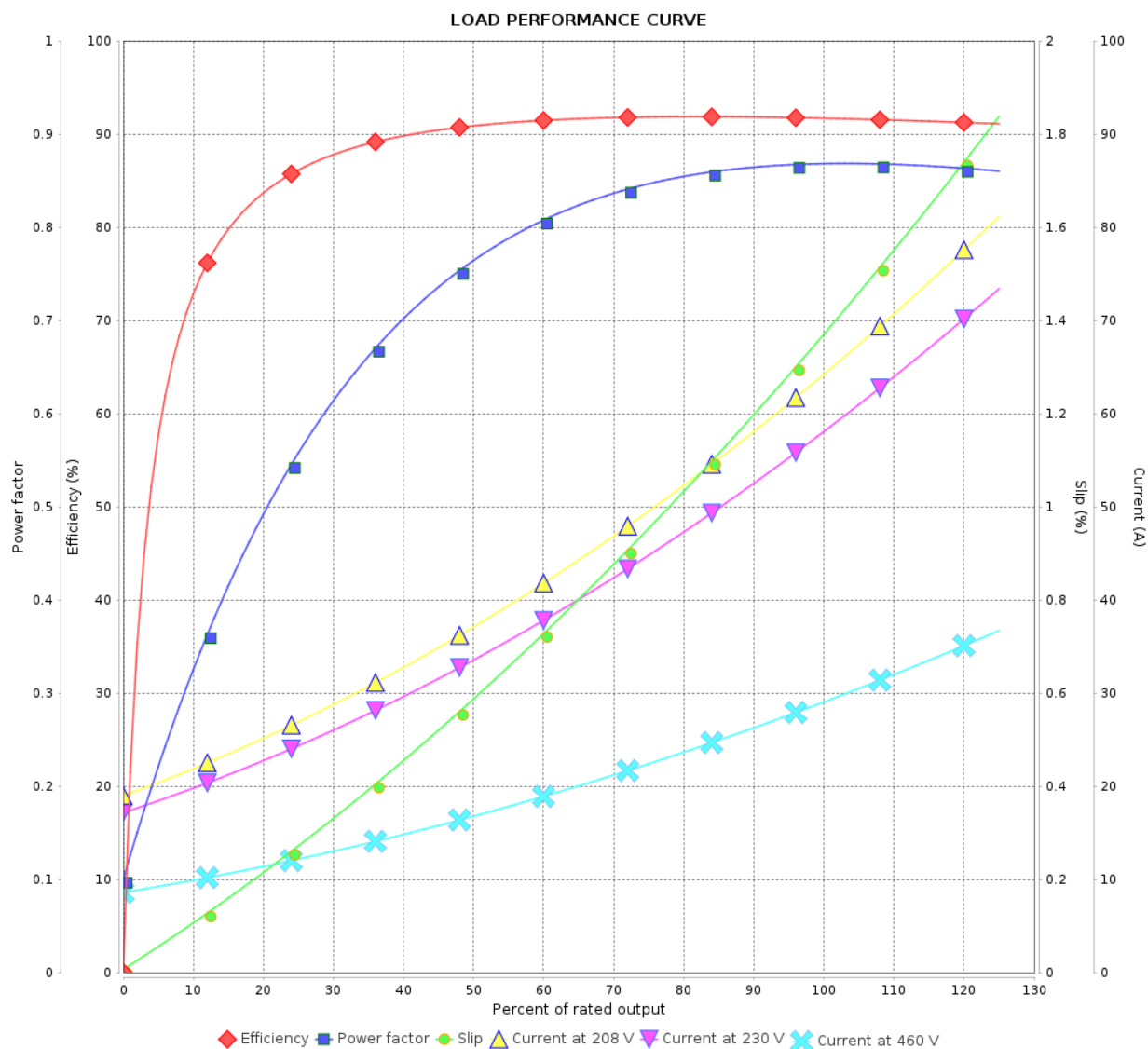


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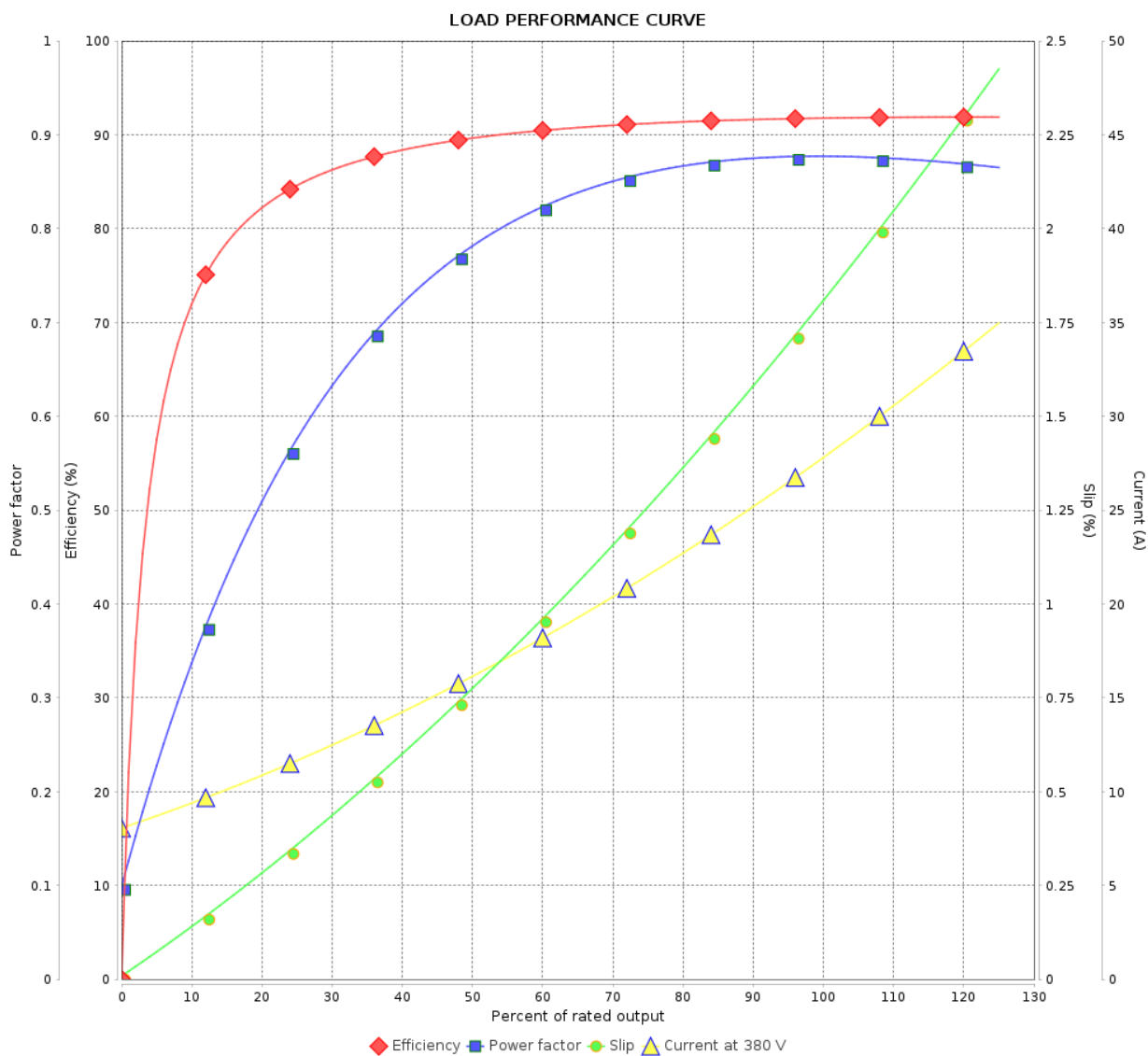


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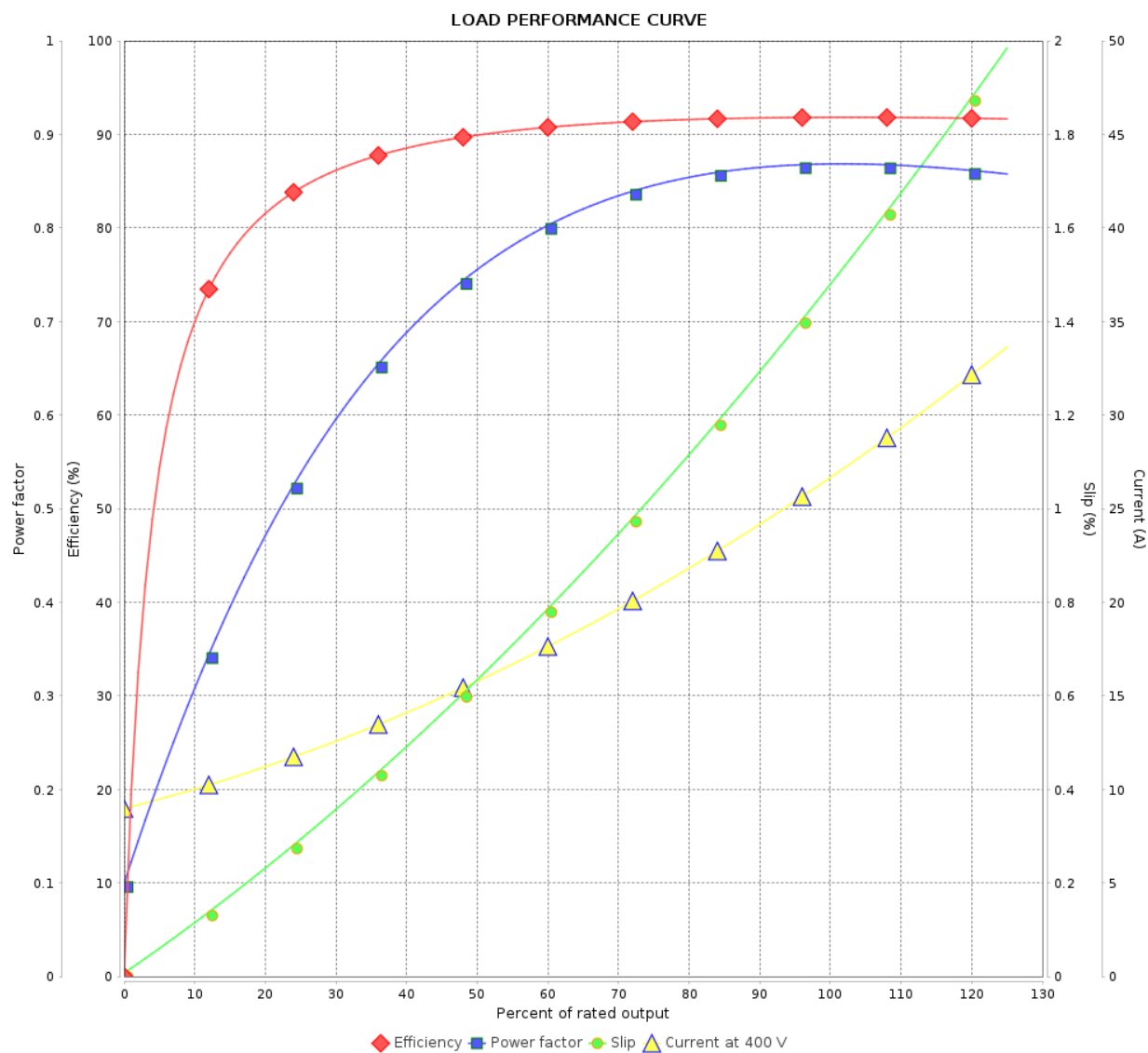


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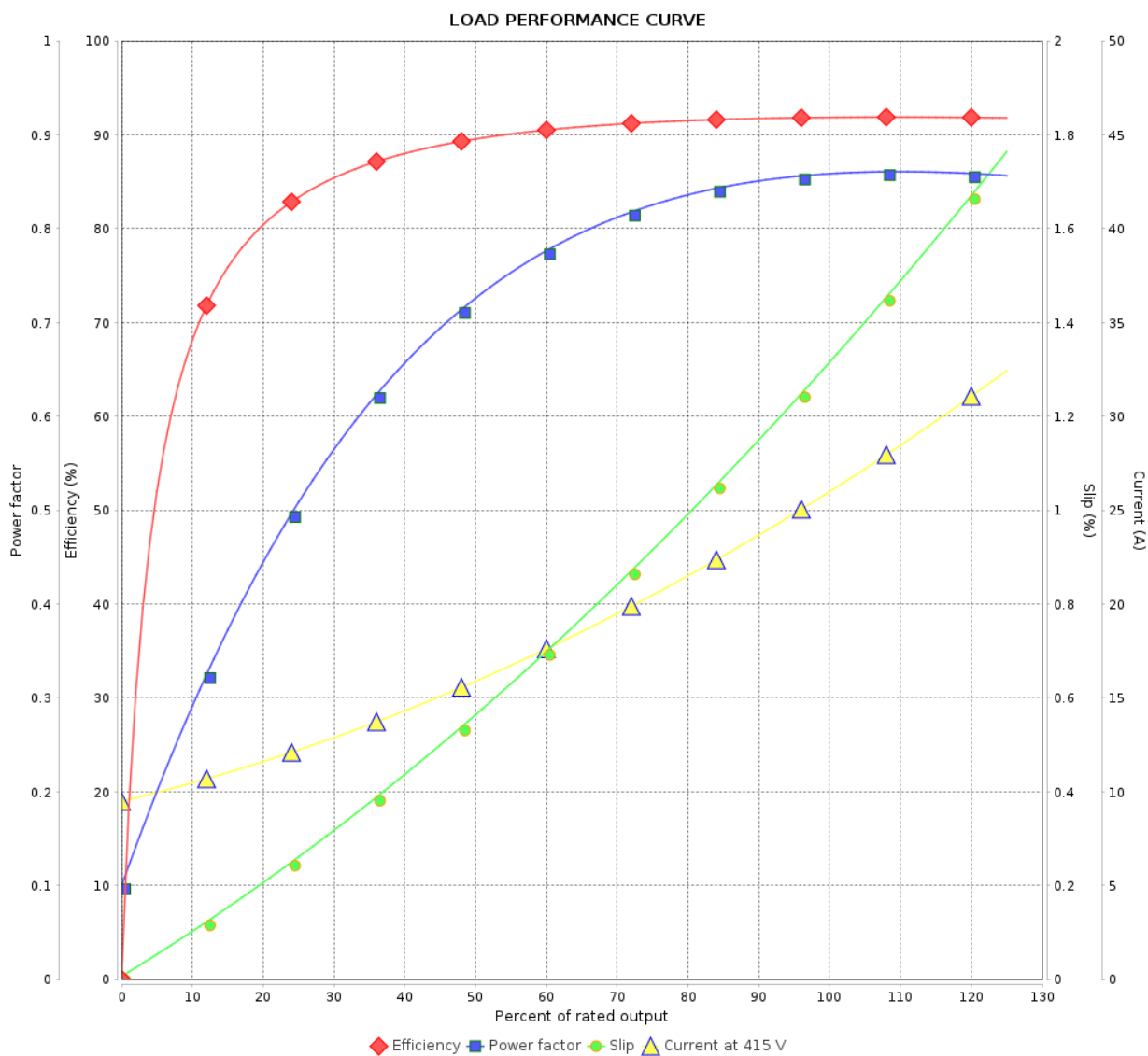


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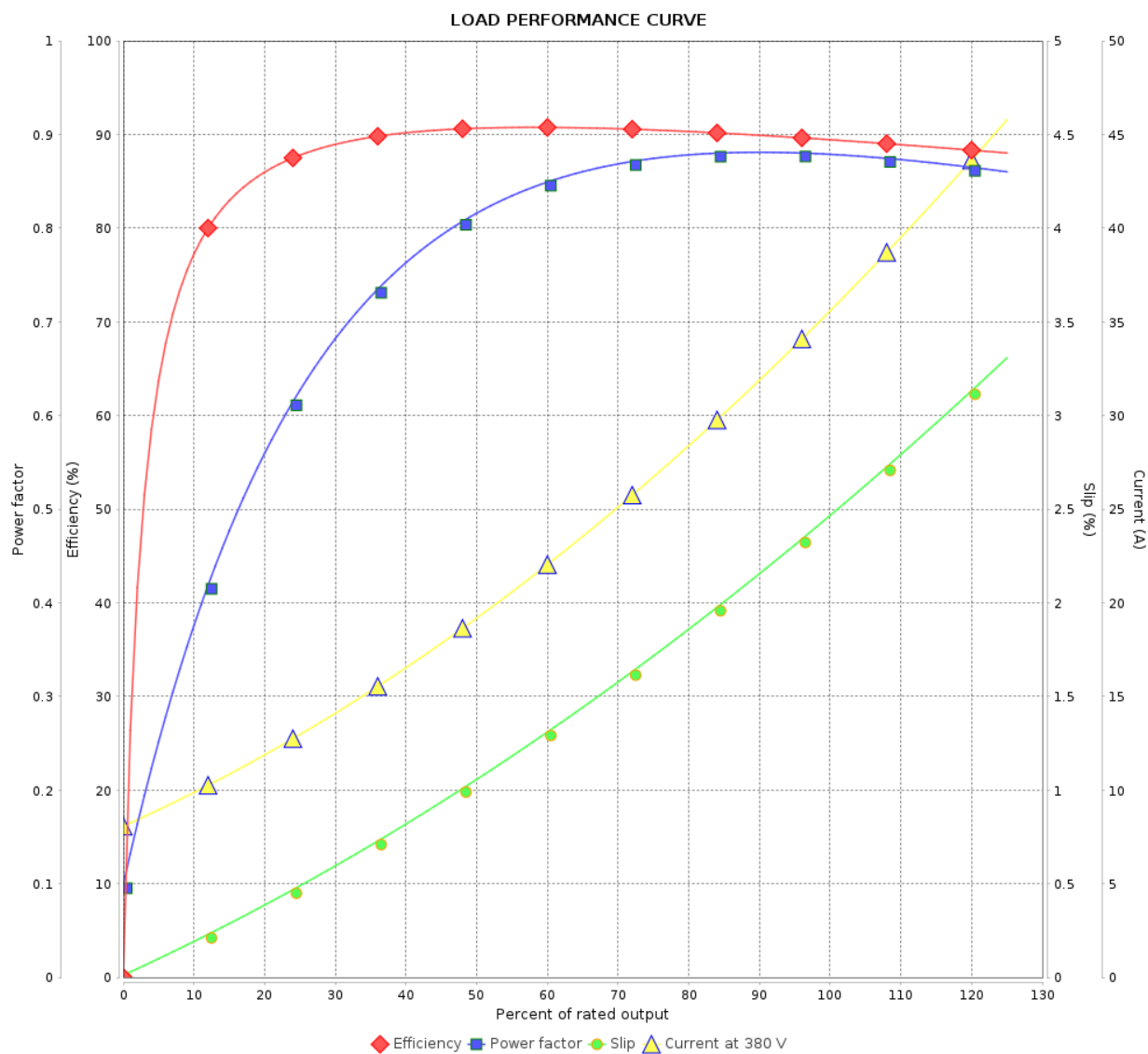


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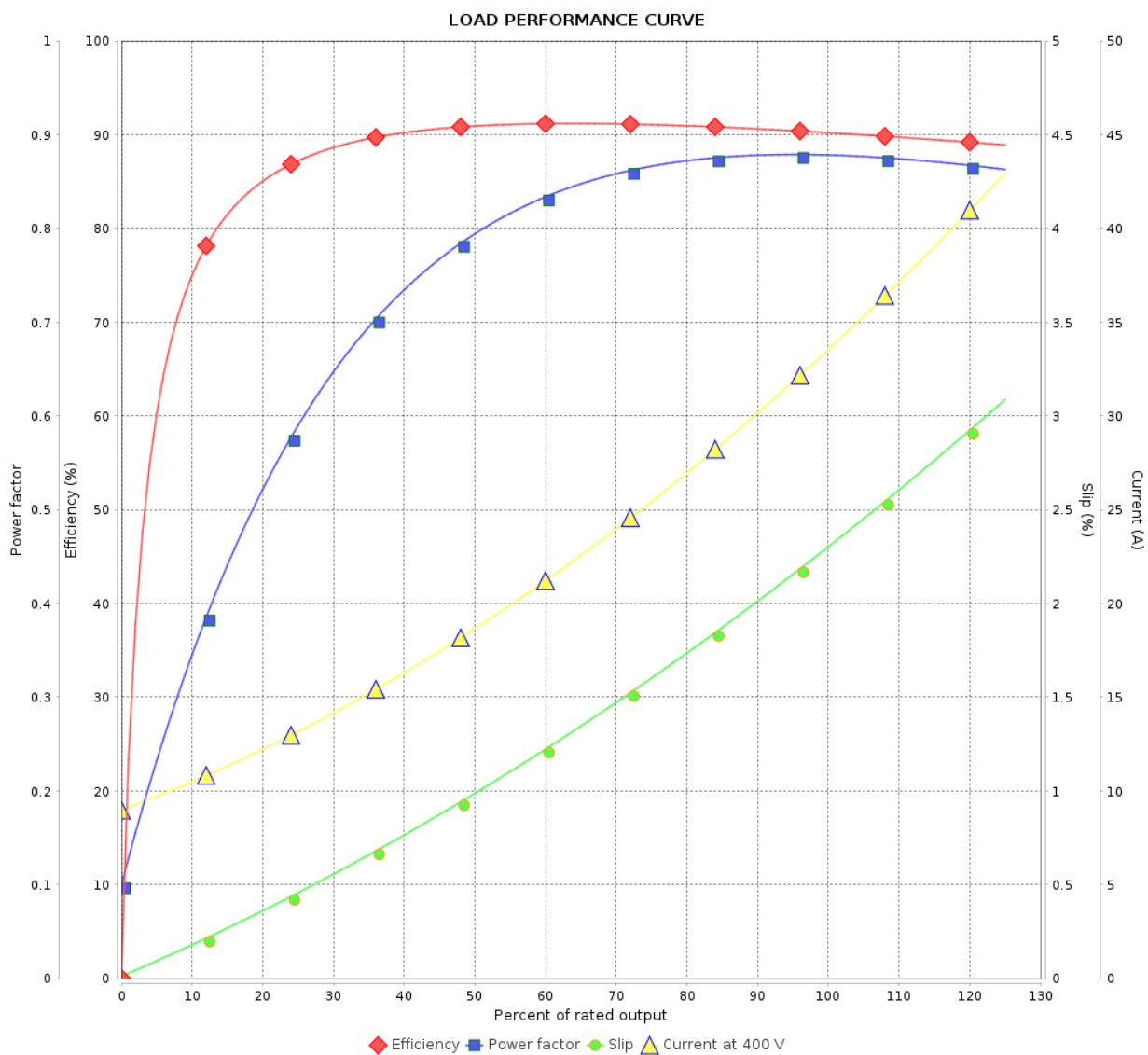


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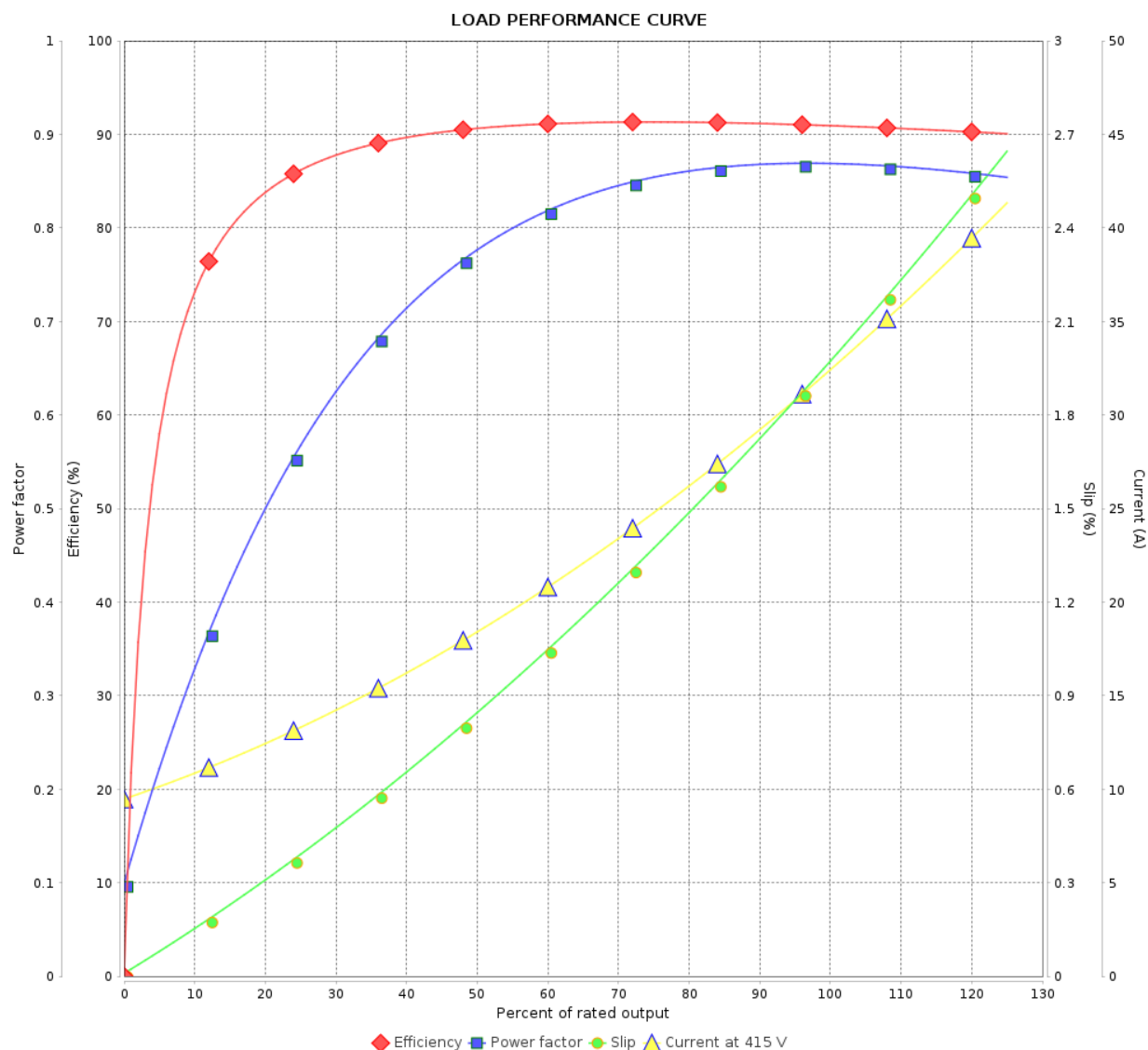


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THERMAL LIMIT CURVE

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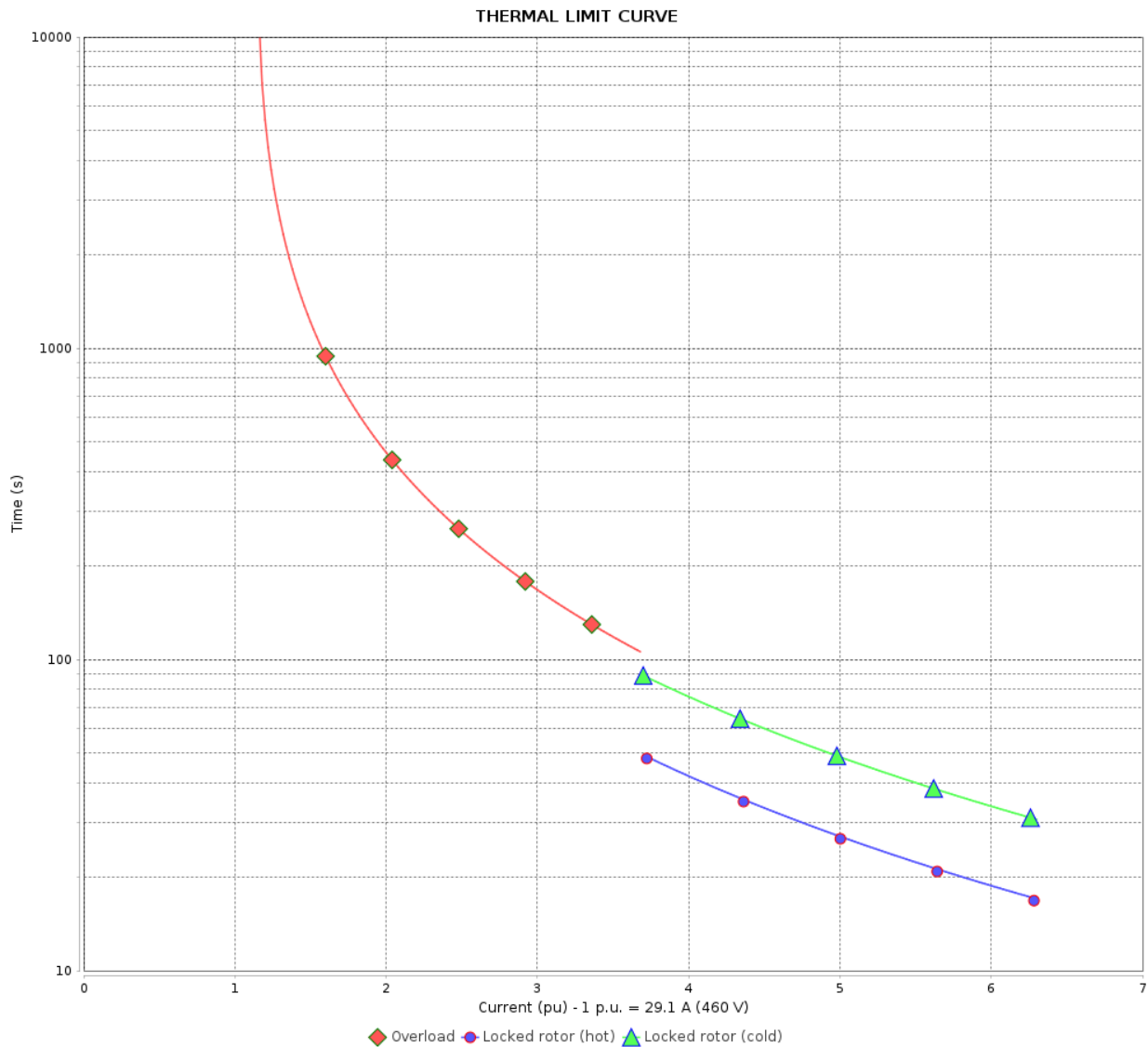


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Heating constant

Cooling constant

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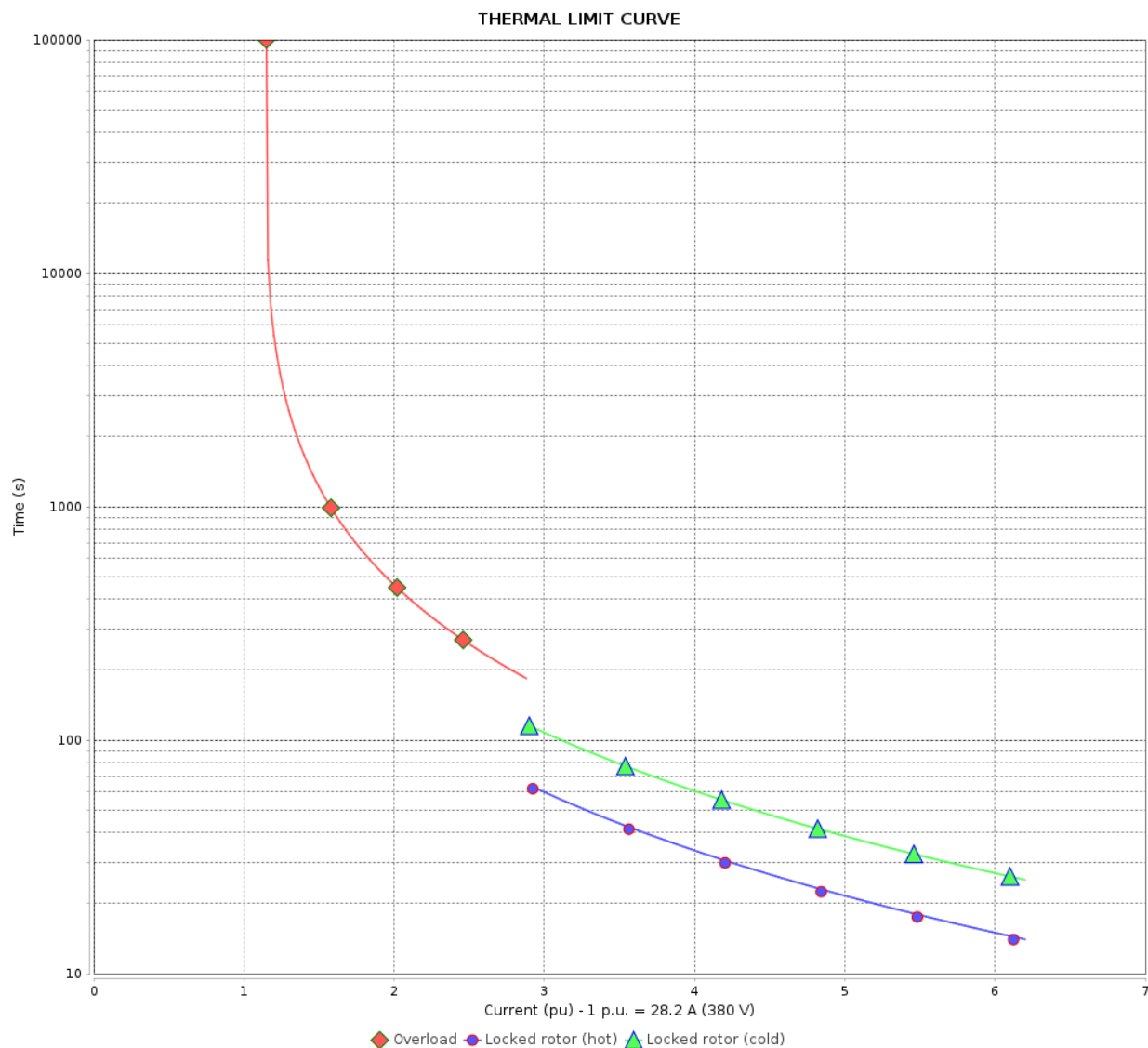


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Heating constant

Cooling constant

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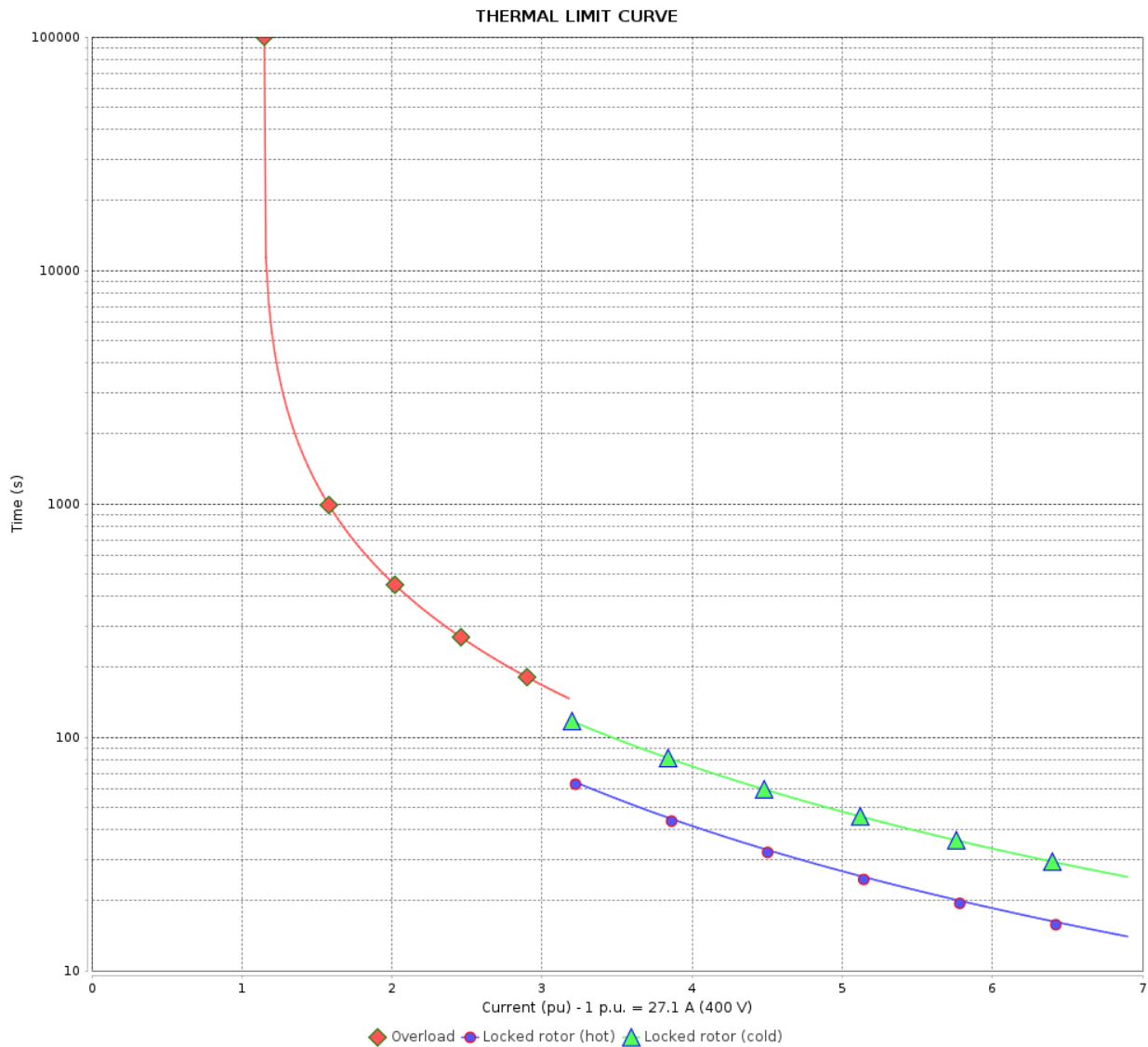


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Heating constant

Cooling constant

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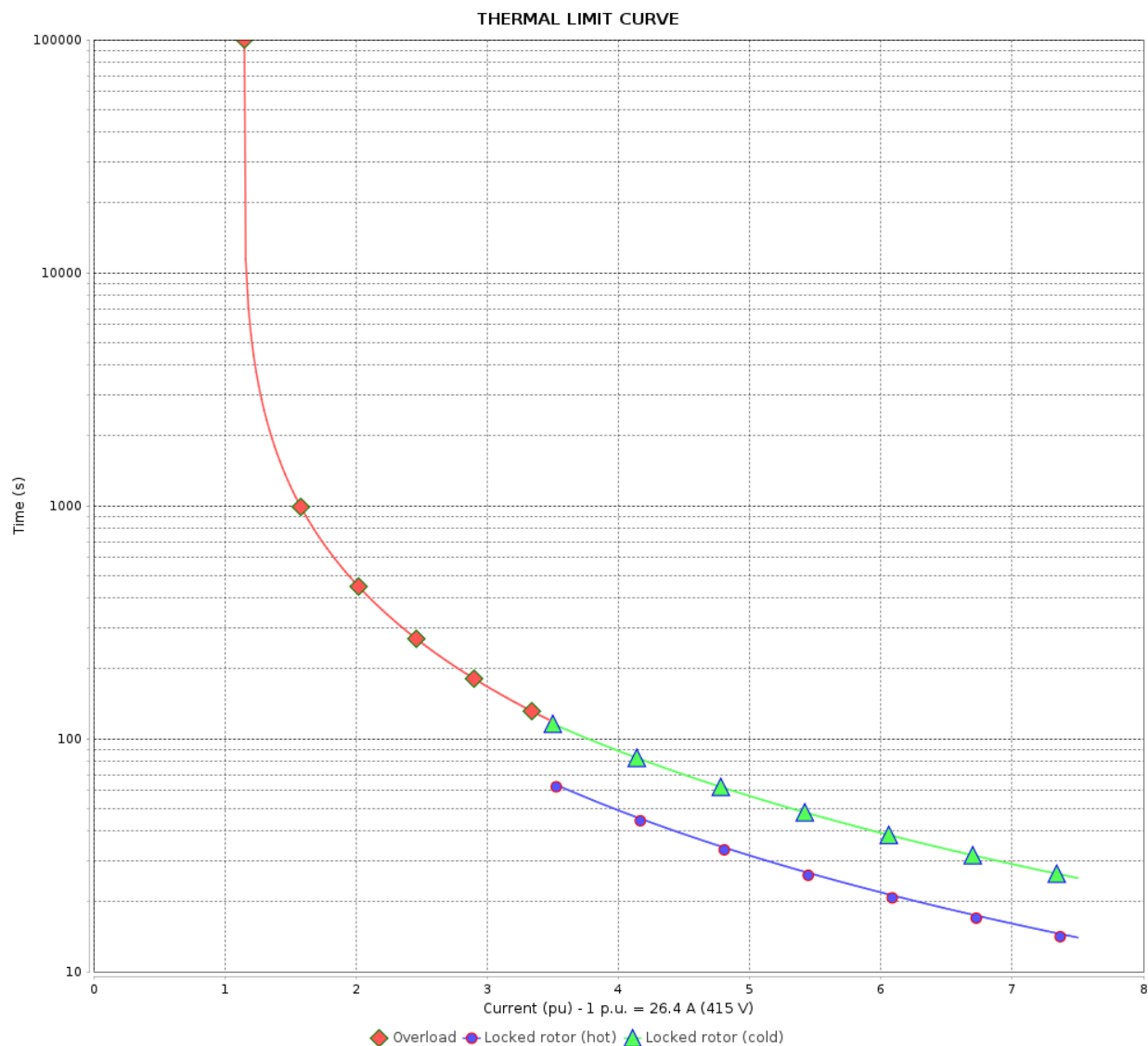


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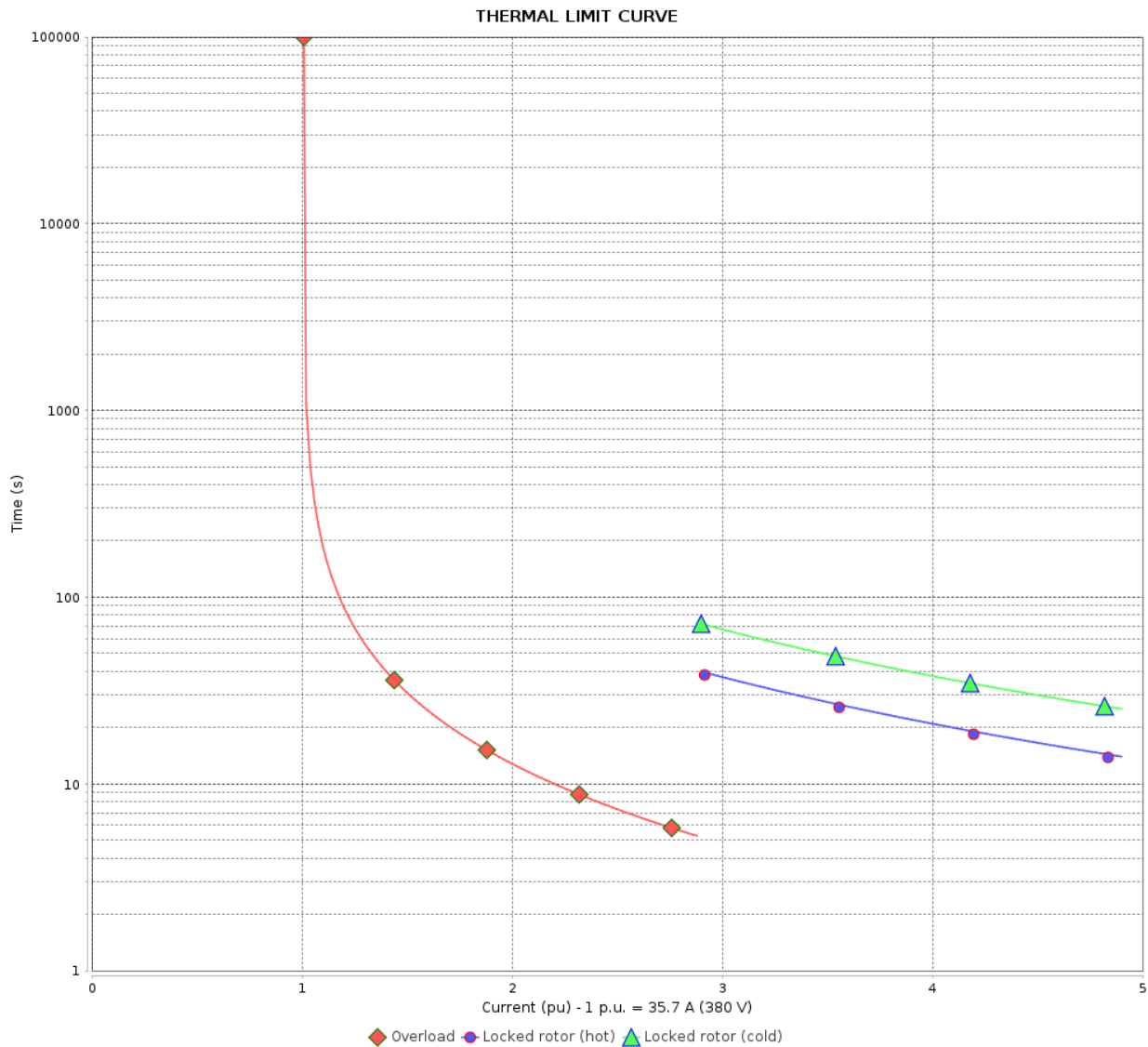


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Heating constant

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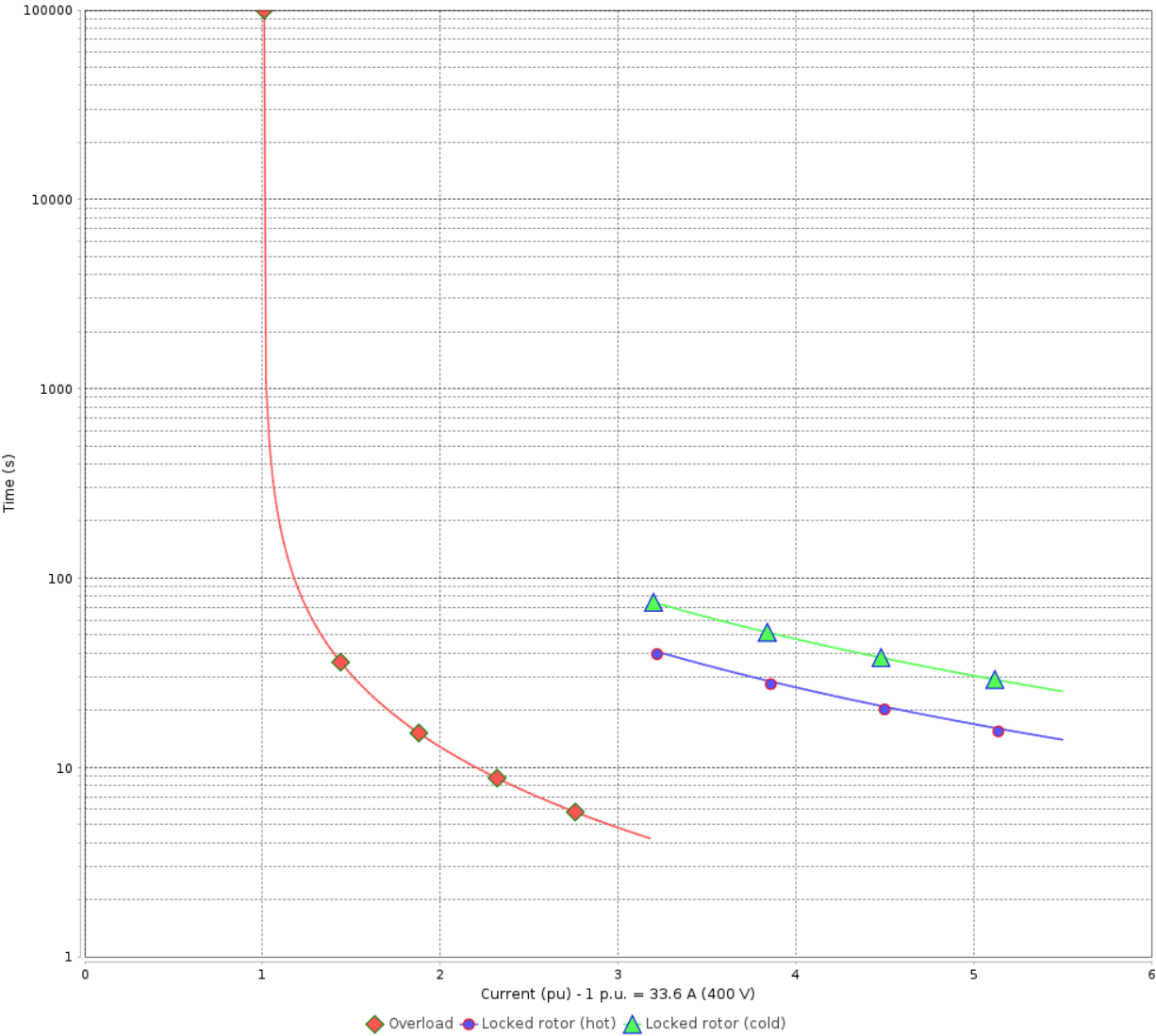
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Three Phase Induction Motor - Squirrel Cage



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THERMAL LIMIT CURVE



Heating constant
Cooling constant

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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

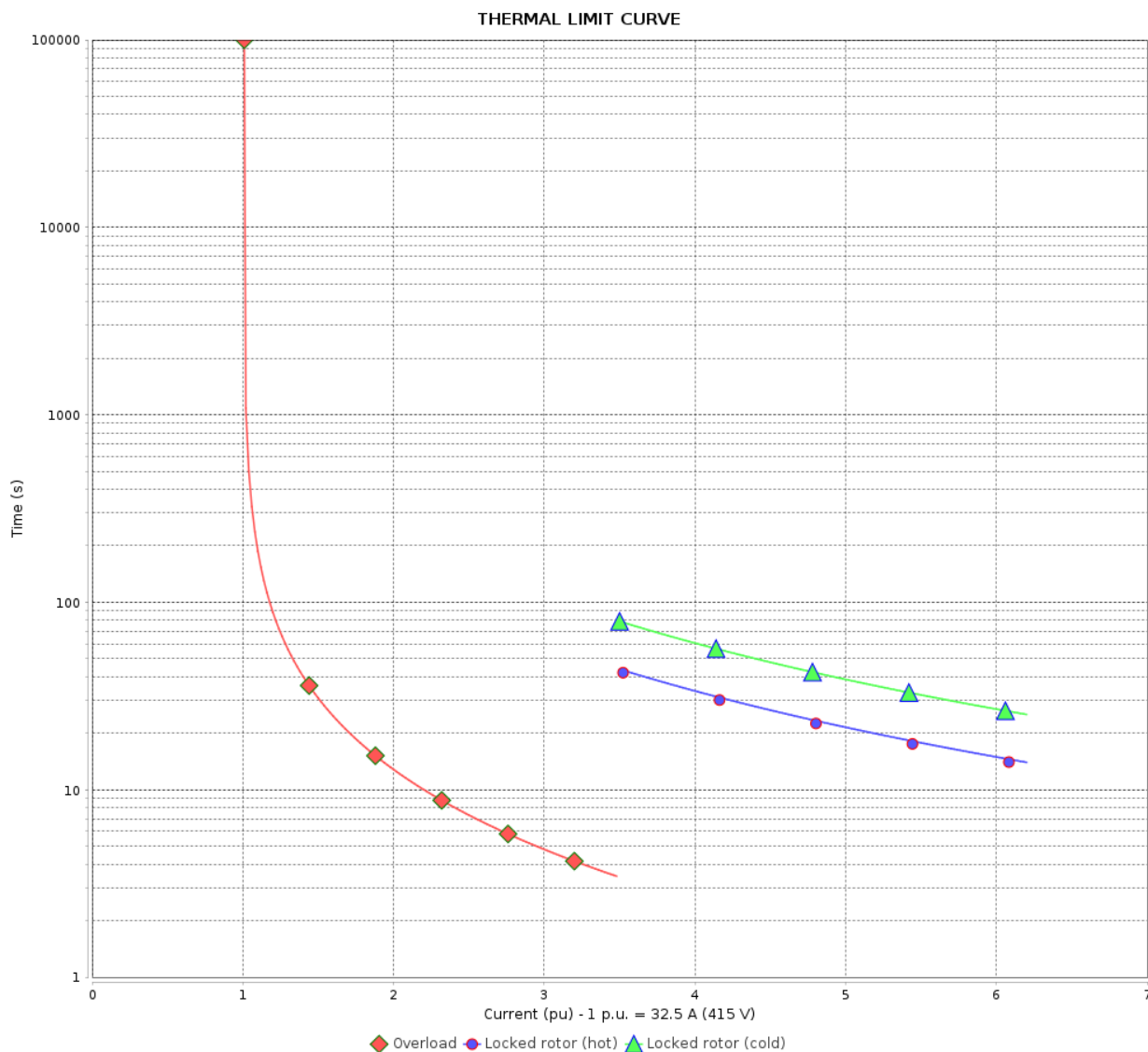


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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

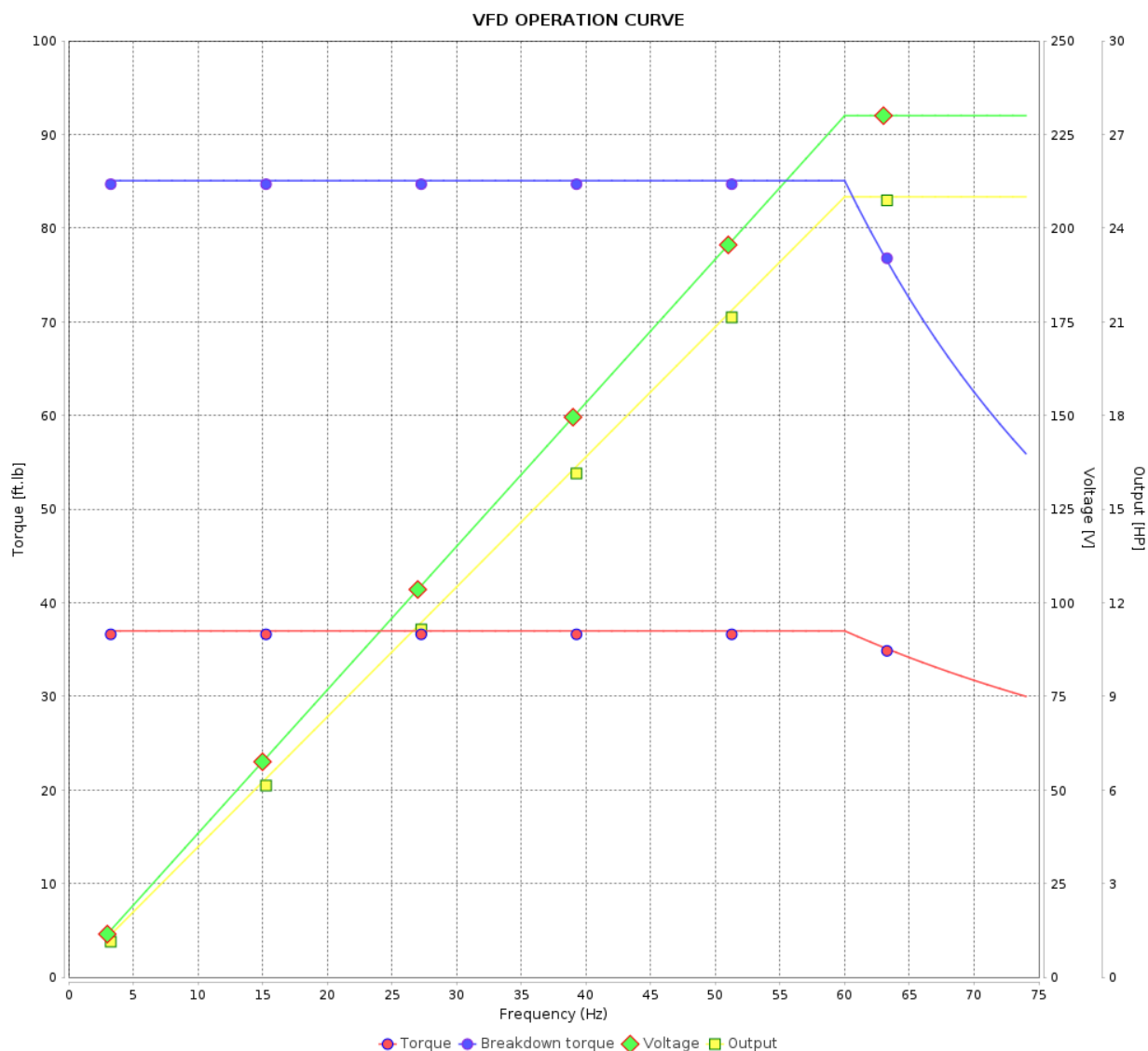


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VFD OPERATION CURVE

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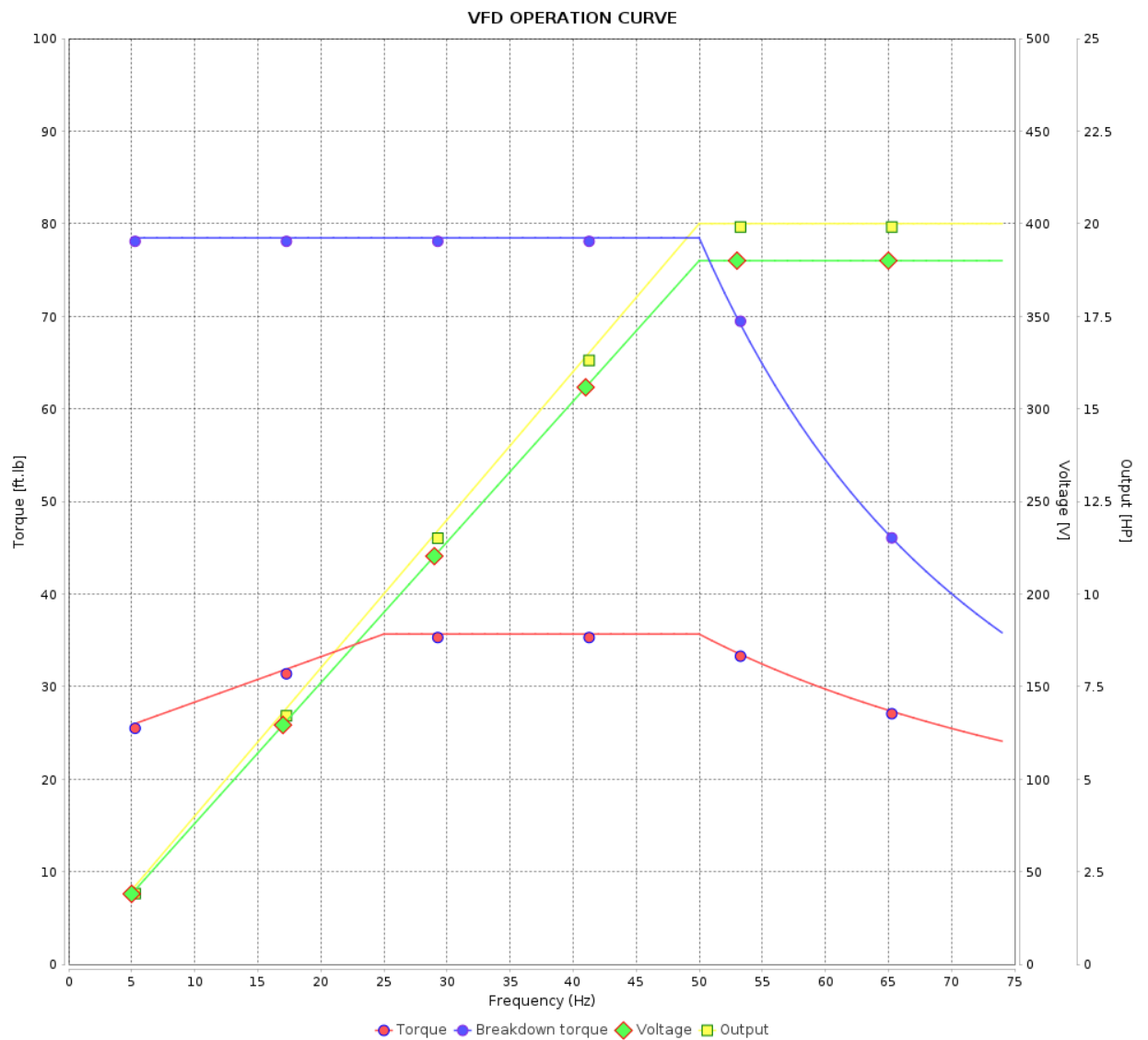


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VFD OPERATION CURVE

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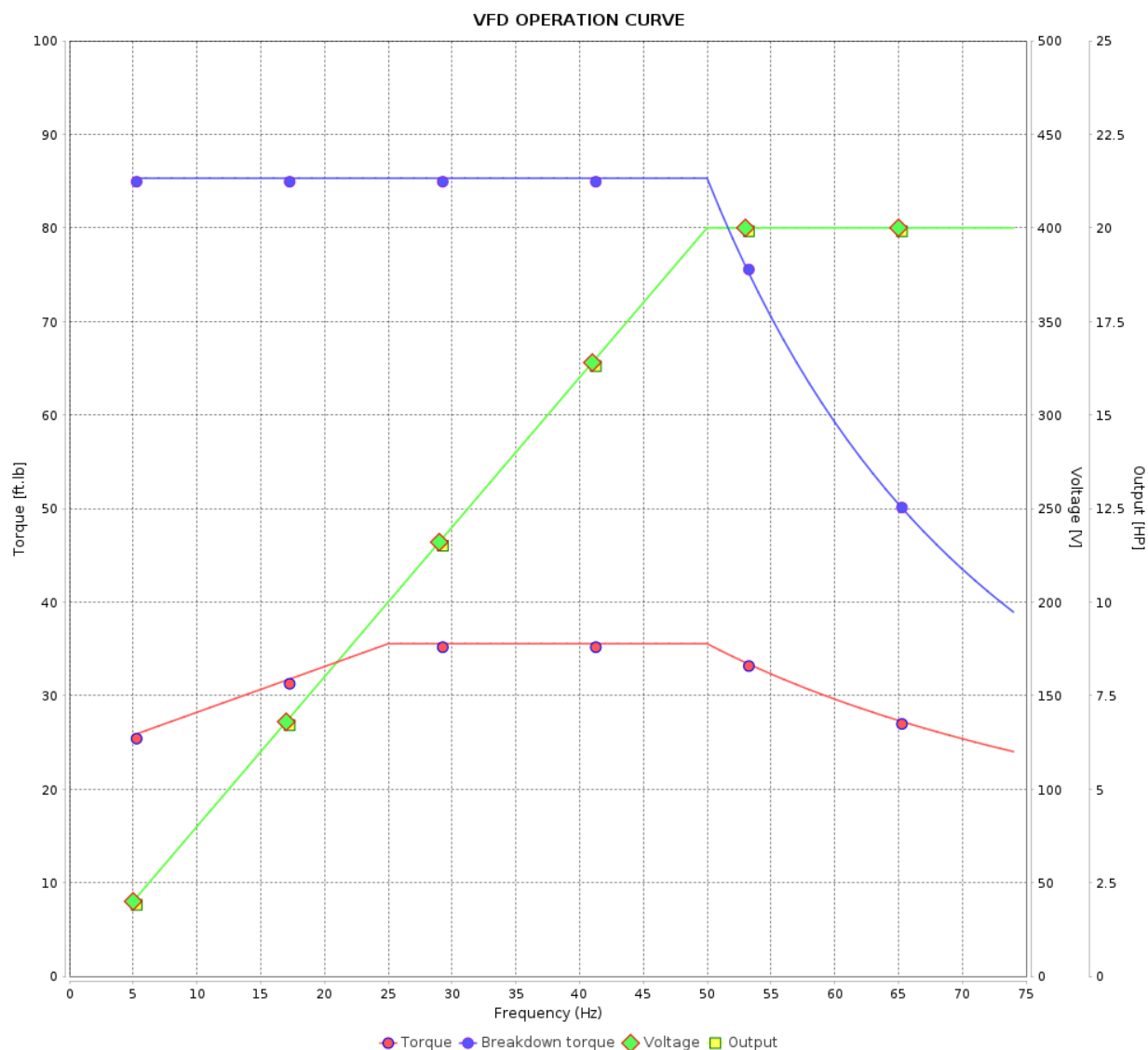


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VFD OPERATION CURVE

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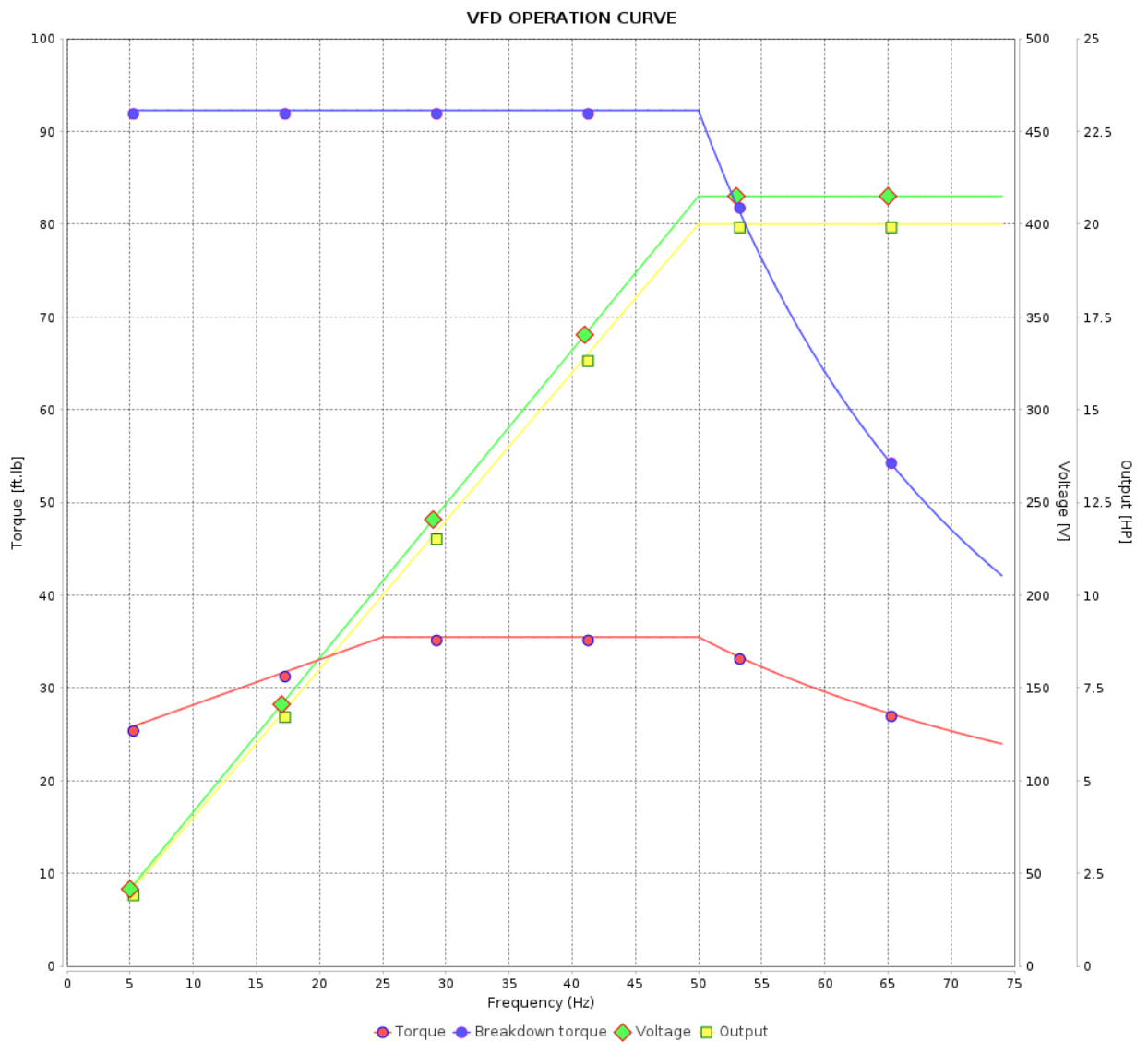


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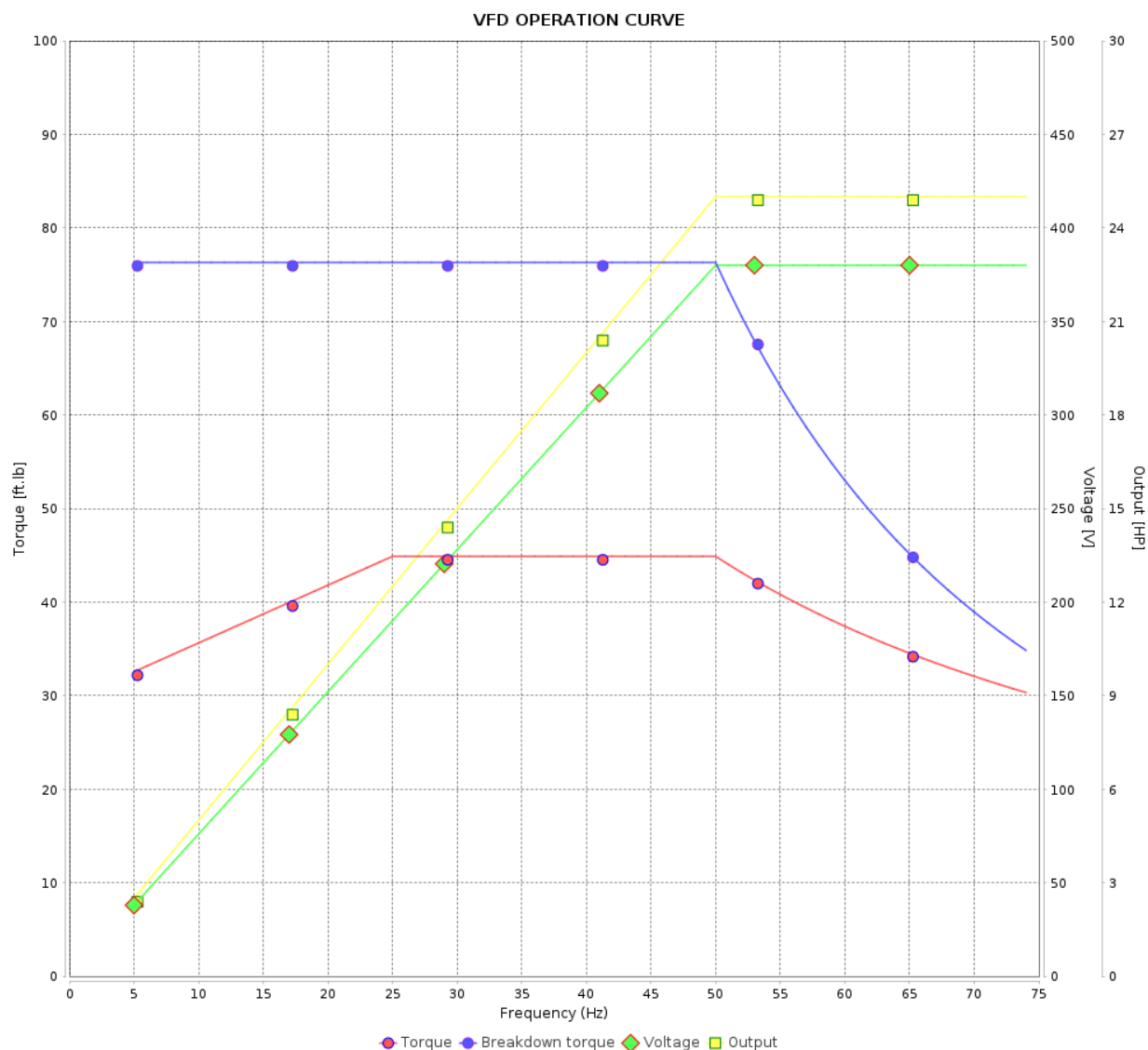


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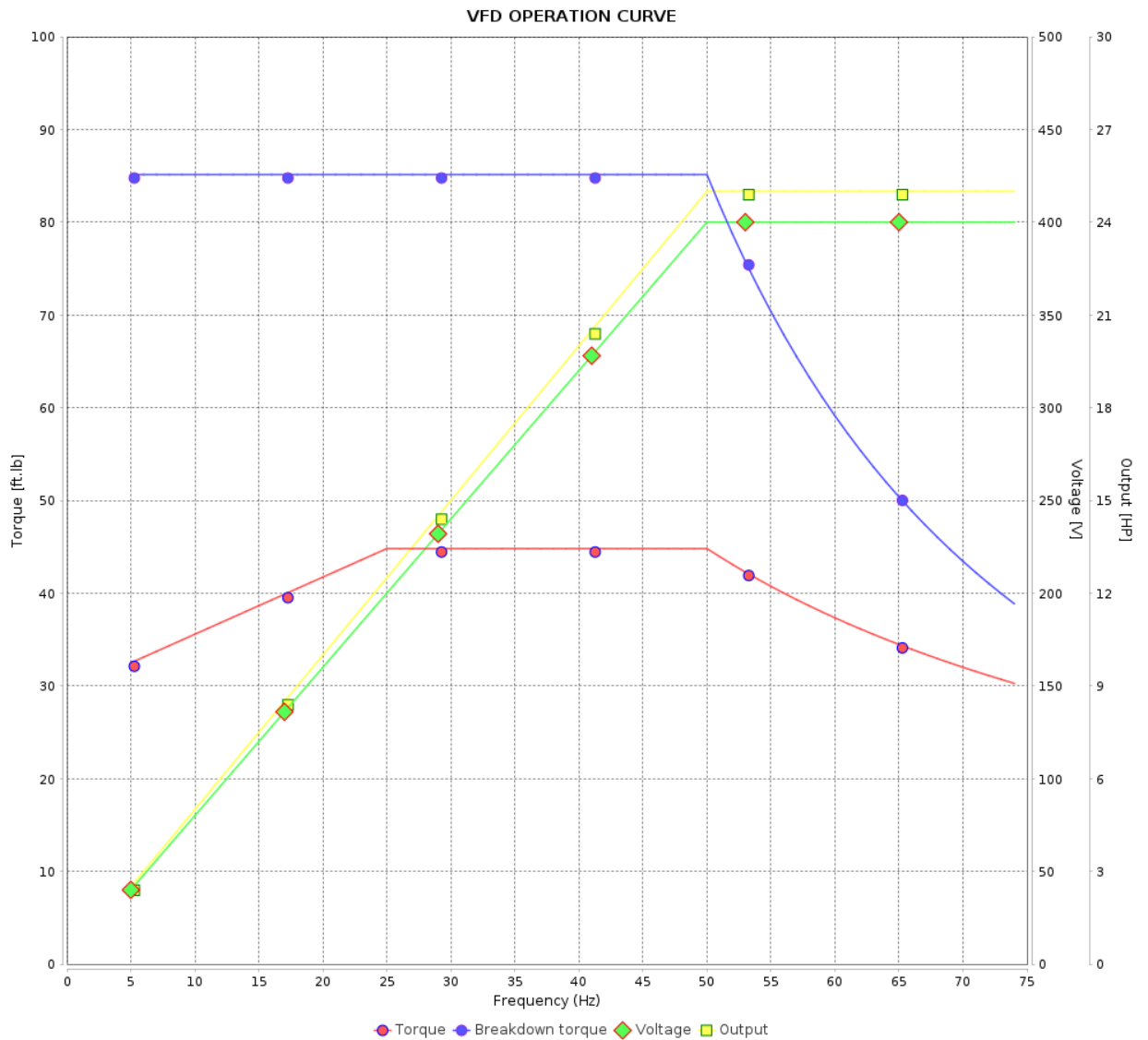


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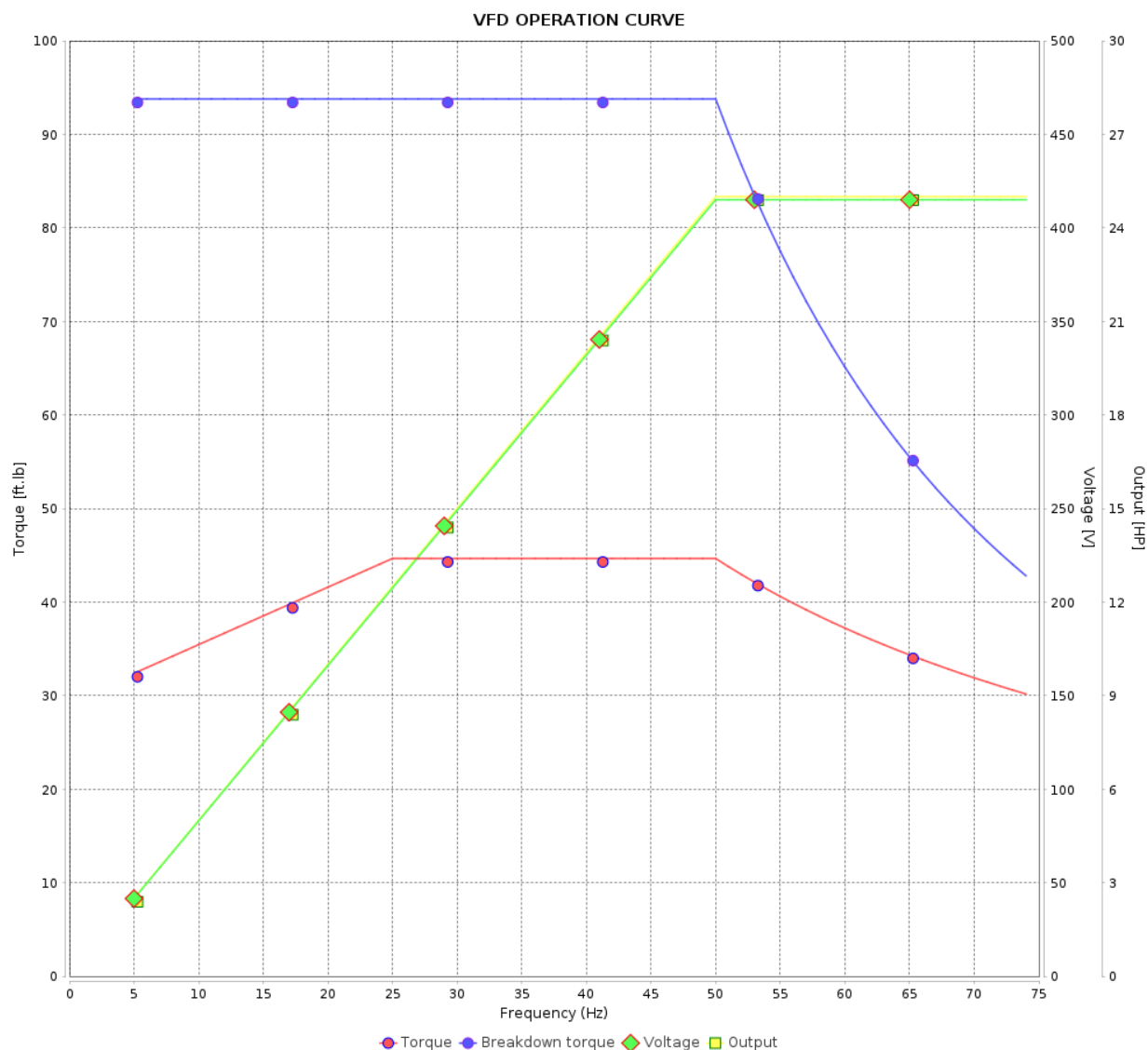


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