

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12630272

Catalog # : 01018OT3E215T-S

Frame	: 213/5T	Cooling method	: IC01 - ODP
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	: 137 lb
Design	: B	Moment of inertia (J)	: 1.30 sq.ft.lb

Output [HP]	10	7.5	7.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	24.4/12.2	22.2-19.2/11.1	10.9
L. R. Amperes [A]	176/88.0	160-138/79.9	93.9
LRC [A]	7.2x(Code H)	7.2x(Code H)	8.6x(Code L)
No load current [A]	10.6/5.30	10.4-8.98/5.20	6.10
Rated speed [RPM]	1770	1470	1475
Slip [%]	1.67	2.00	1.67
Rated torque [ft.lb]	29.7	26.8	26.7
Locked rotor torque [%]	200	229	270
Breakdown torque [%]	290	300	370
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	25s (cold) 14s (hot)	41s (cold) 23s (hot)	34s (cold) 19s (hot)
Noise level ²	59.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%		
	50%	90.2	89.0
	75%	91.0	89.4
	100%	91.7	89.6
Power Factor	25%		
	50%	0.68	0.64
	75%	0.78	0.78
	100%	0.84	0.84

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6208 ZZ	6206 ZZ
Sealing	: Without	Without
	Bearing Seal	Bearing Seal
Lubrication interval	: -	-
Lubricant amount	: -	-
Lubricant type	: Mobil Polyrex EM	

Foundation loads
Max. traction : 0 lb
Max. compression : 0 lb

Notes

USABLE @208V 27.4A SF 1.00 SFA 27.4A

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

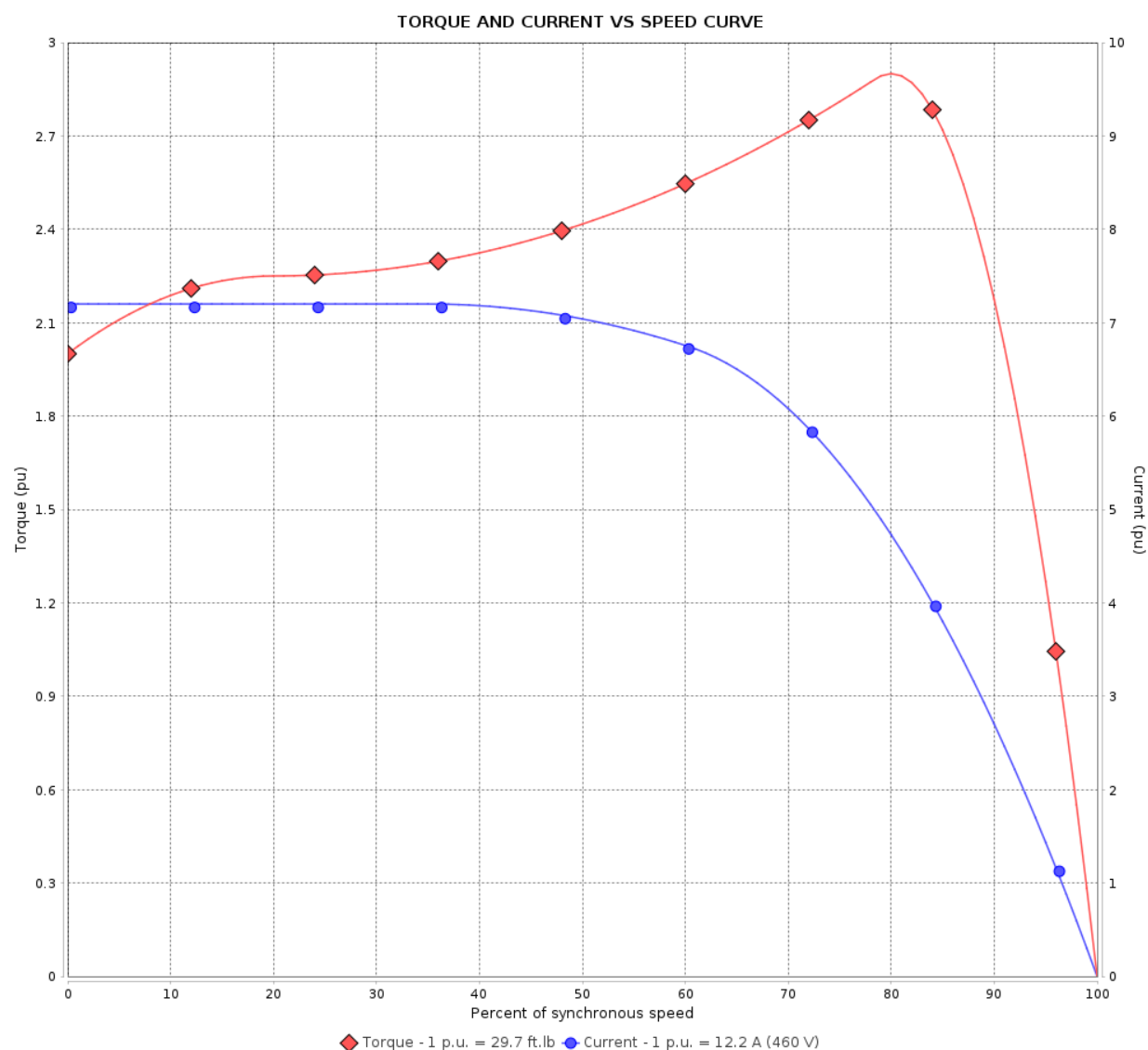


Customer :

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Product code : 12630272

Catalog # : 01018OT3E215T-S



Performance : 230/460 V 60 Hz 4P

Rated current : 24.4/12.2 A
LRC : 7.2
Rated torque : 29.7 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 290 %
Rated speed : 1770 rpm

Moment of inertia (J) : 1.30 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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

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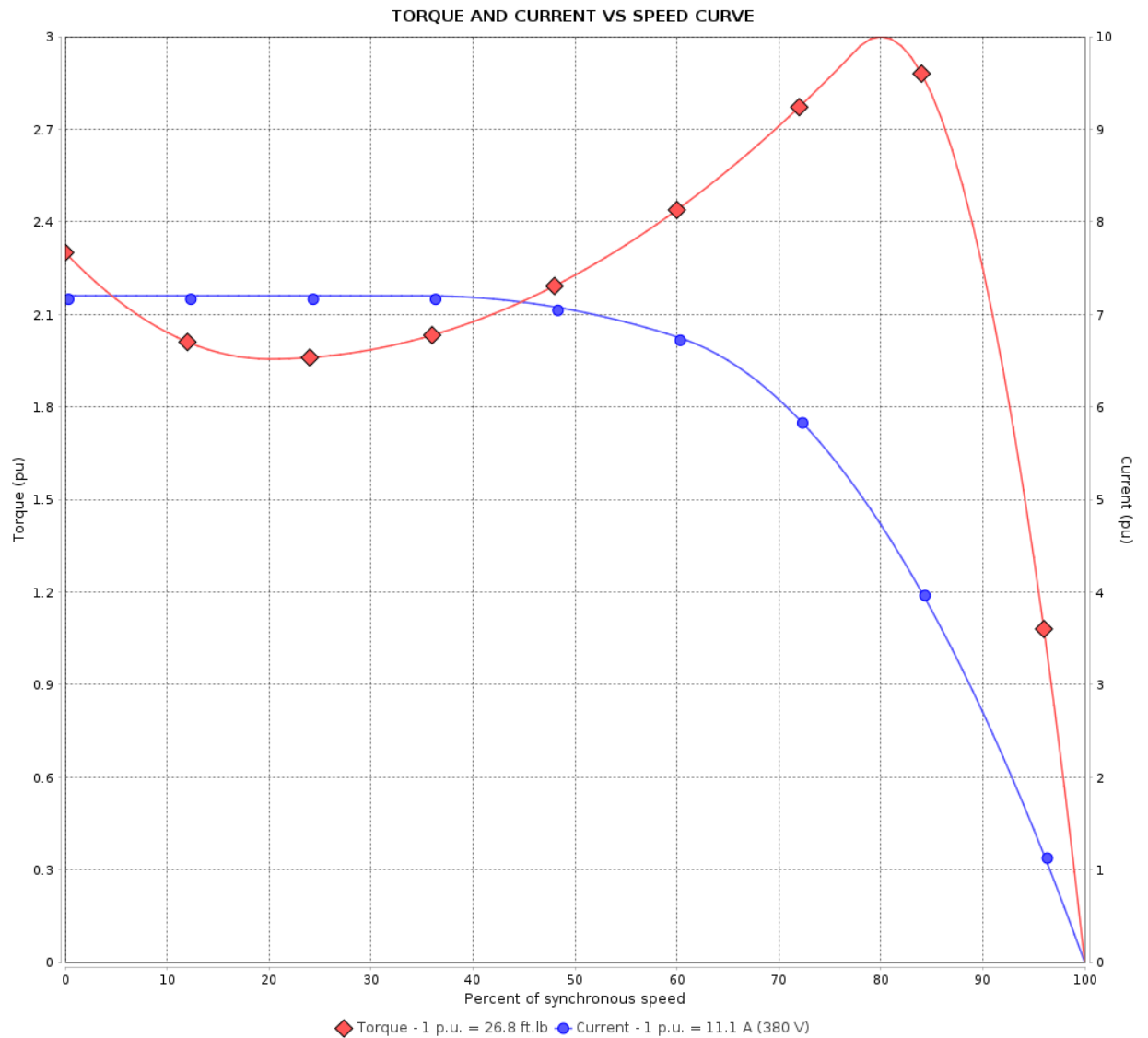


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Catalog # : 01018OT3E215T-S



Performance : 190-220/380 V 50 Hz 4P

Rated current : 22.2-19.2/11.1 A
LRC : 7.2
Rated torque : 26.8 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 300 %
Rated speed : 1470 rpm

Moment of inertia (J) : 1.30 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Locked rotor time : 41s (cold) 23s (hot)

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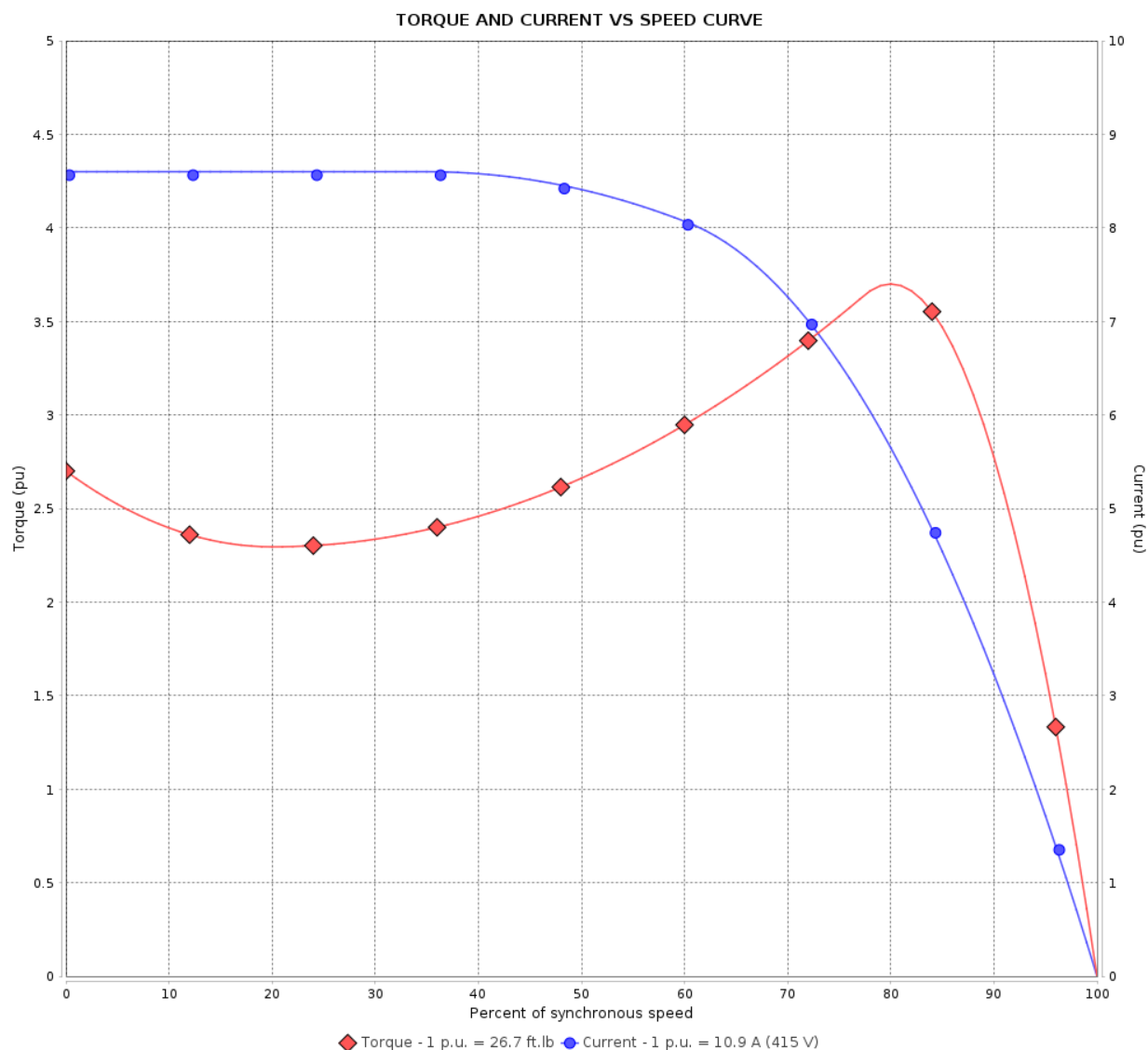


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Catalog # : 01018OT3E215T-S



Performance : 415 V 50 Hz 4P

Rated current	: 10.9 A	Moment of inertia (J)	: 1.30 sq.ft.lb
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 26.7 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

Locked rotor time : 34s (cold) 19s (hot)

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LOAD PERFORMANCE CURVE

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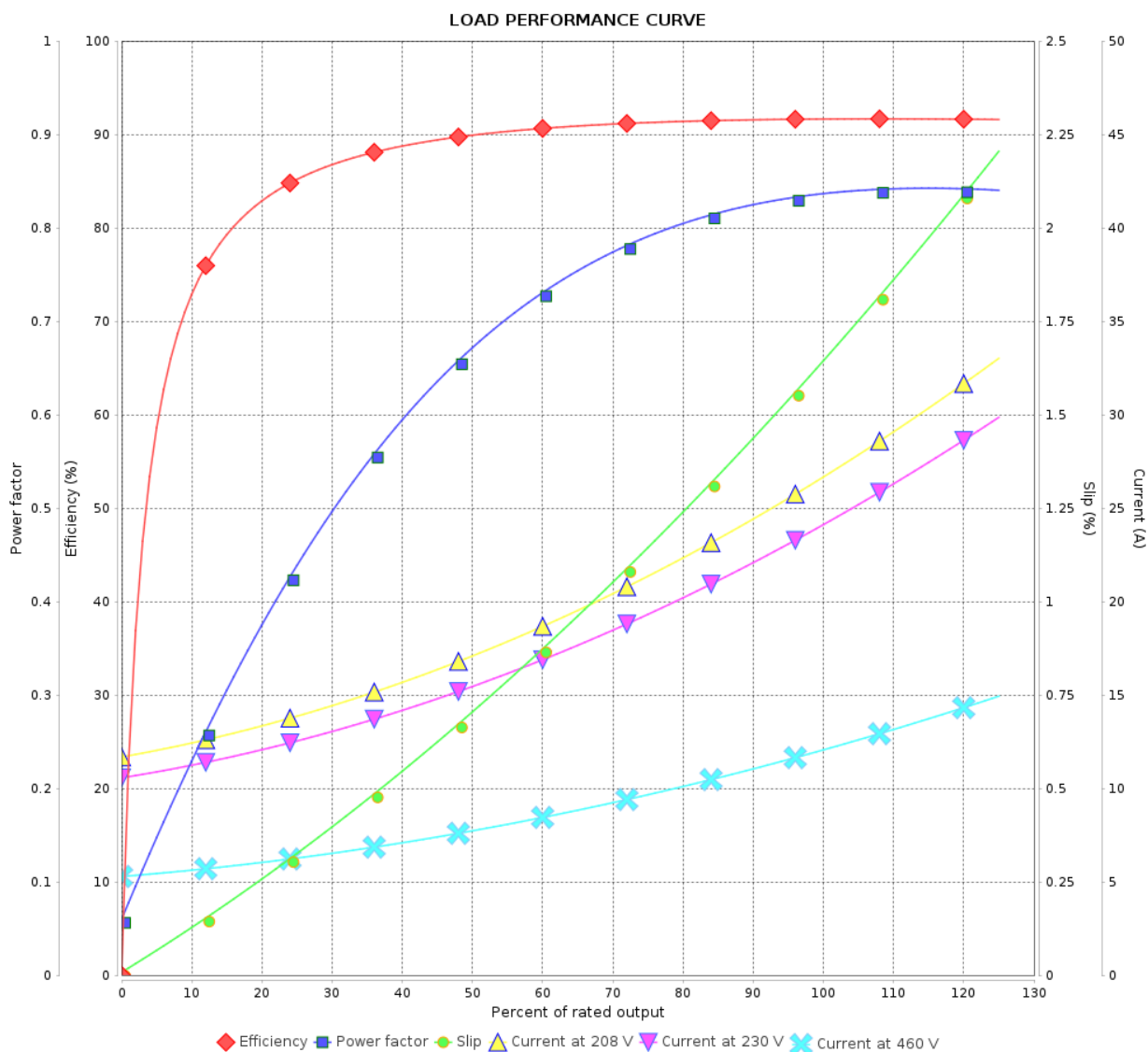


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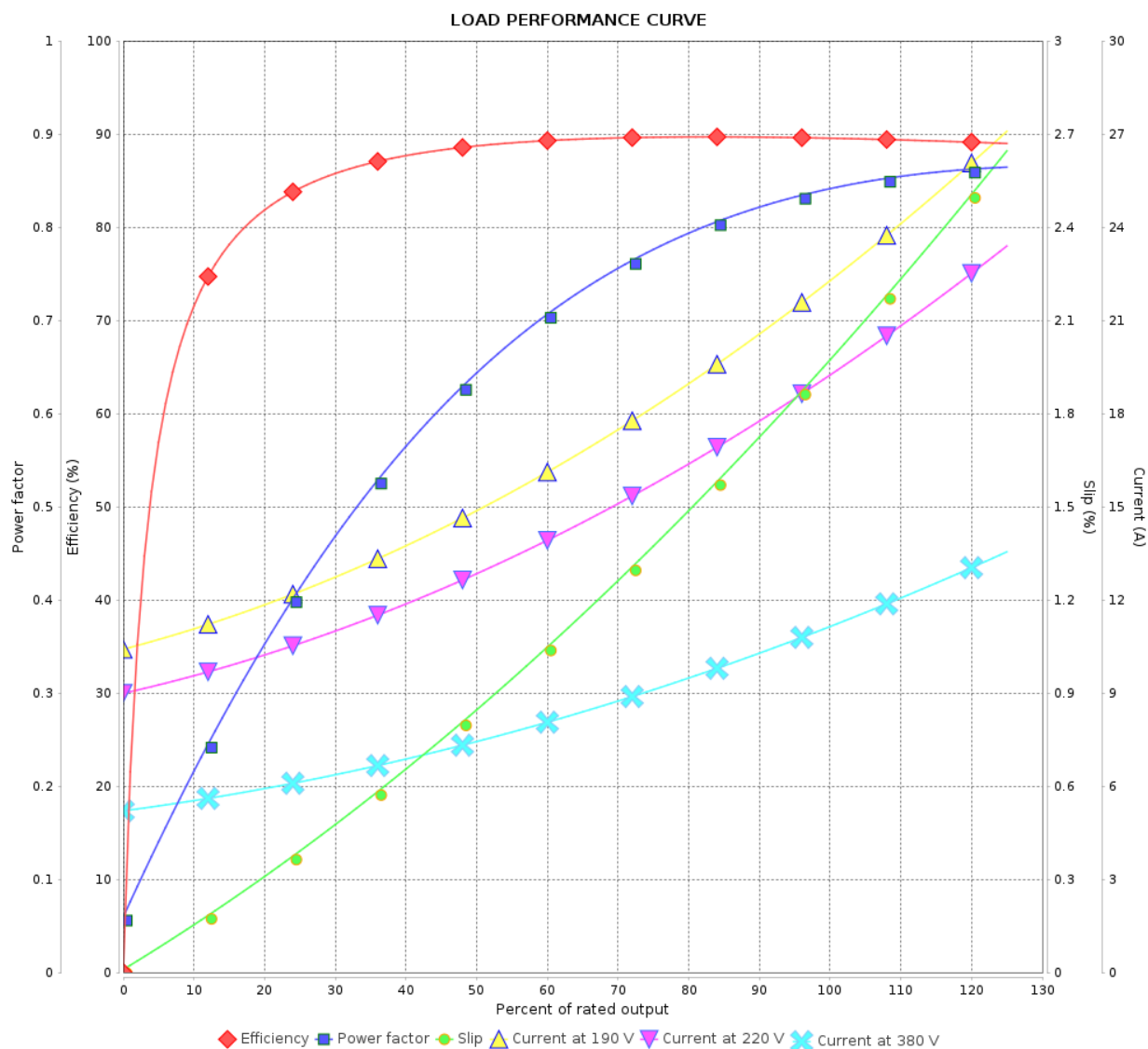


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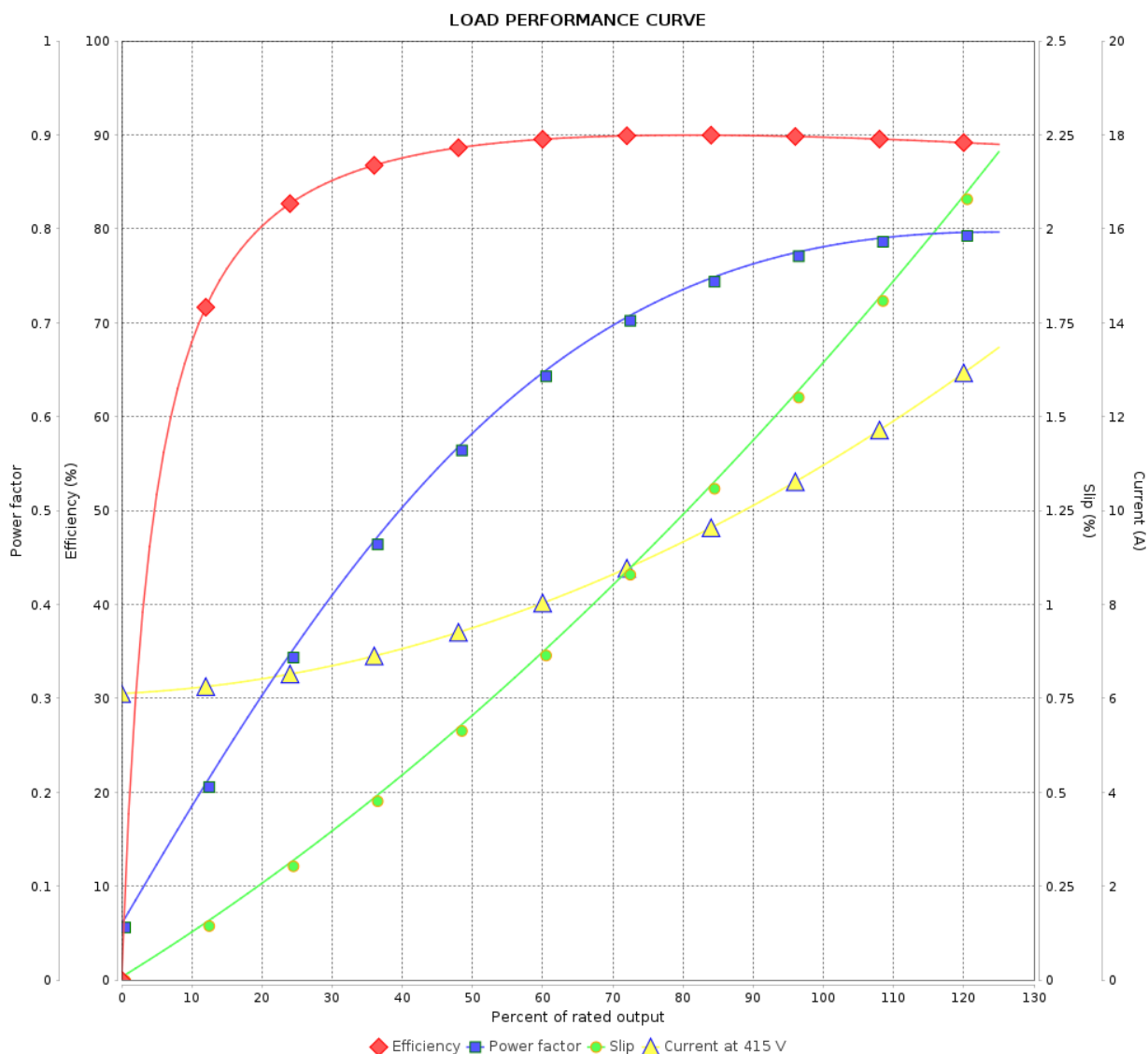


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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

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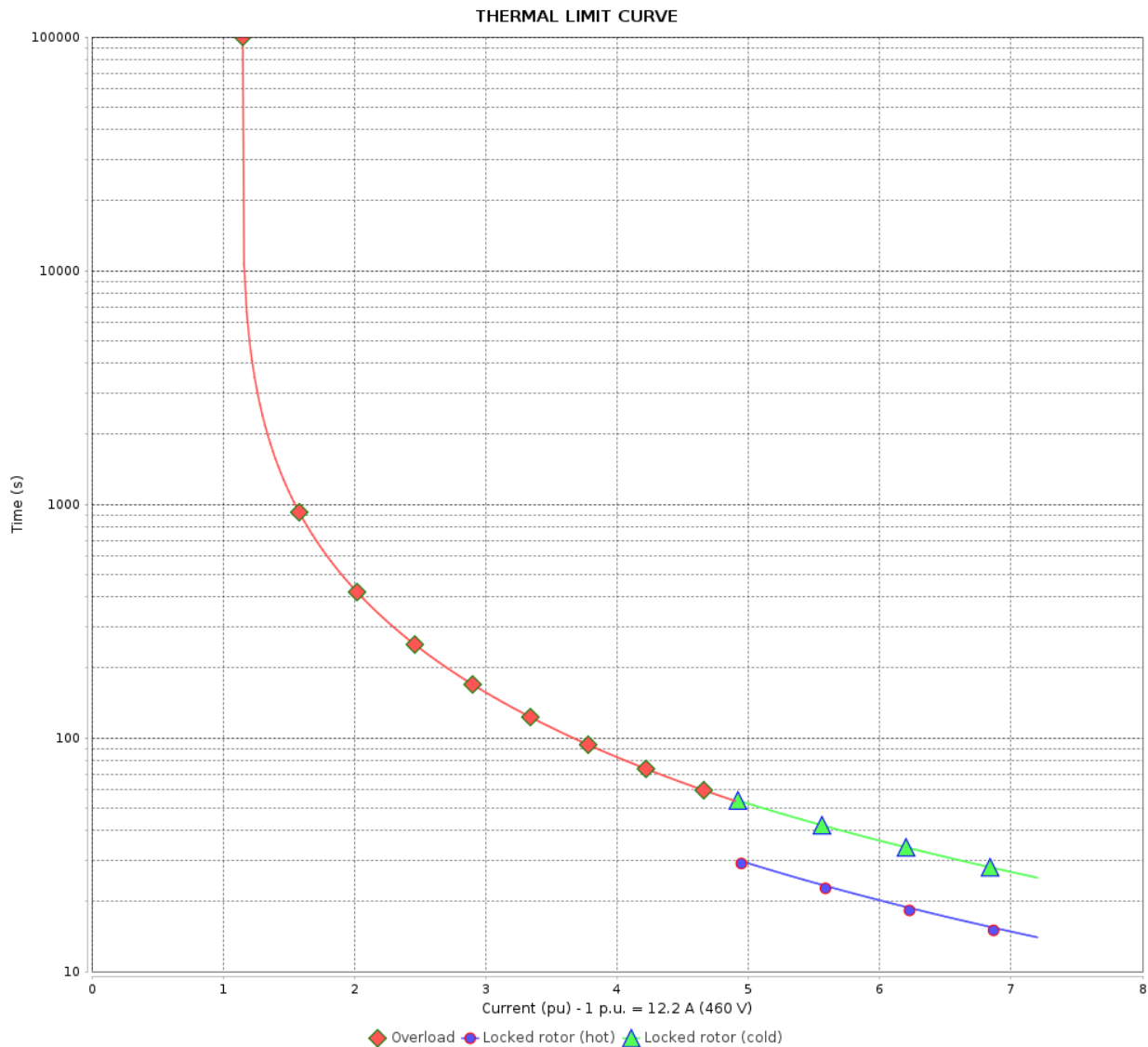
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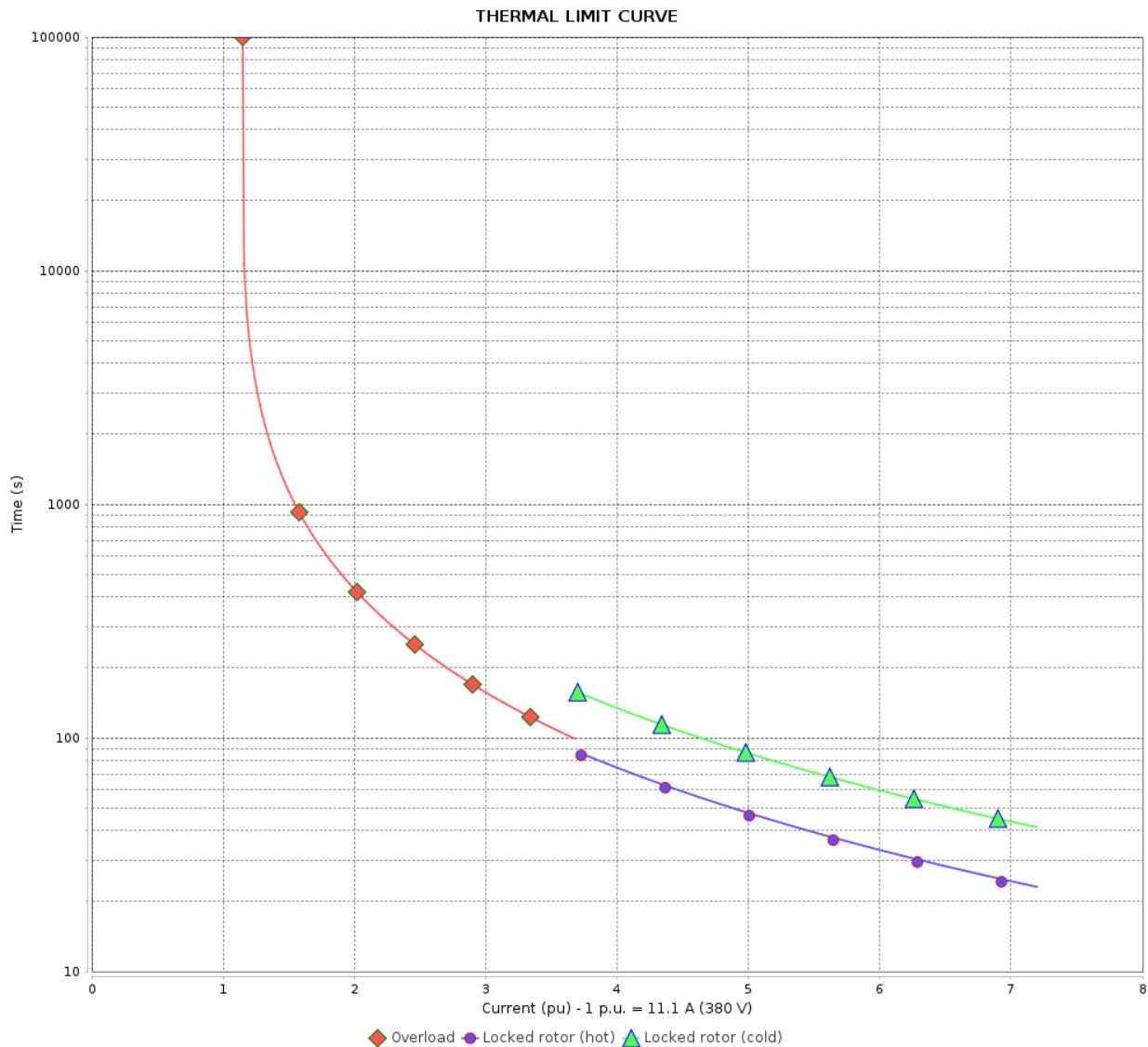
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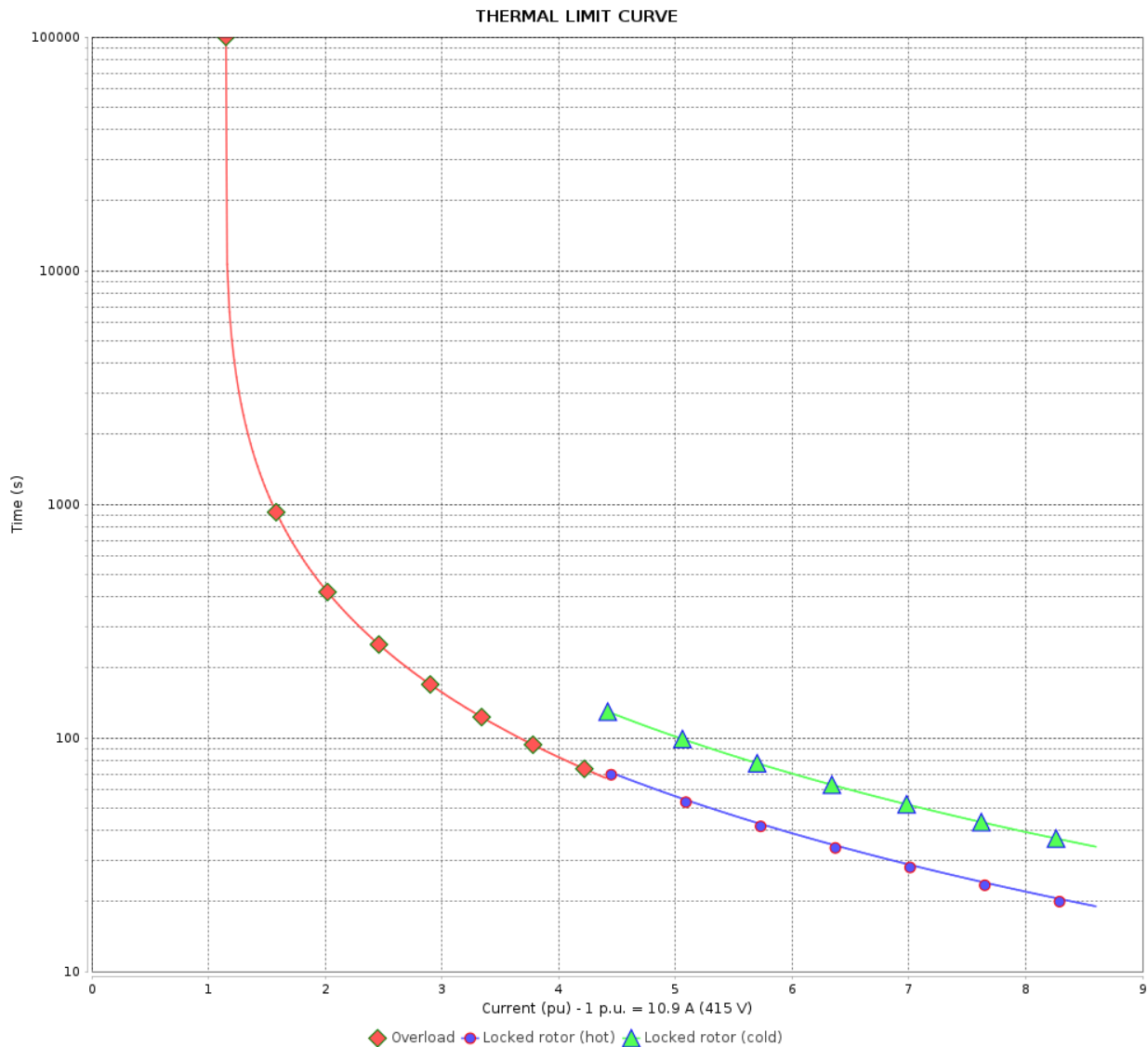
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VFD OPERATION CURVE

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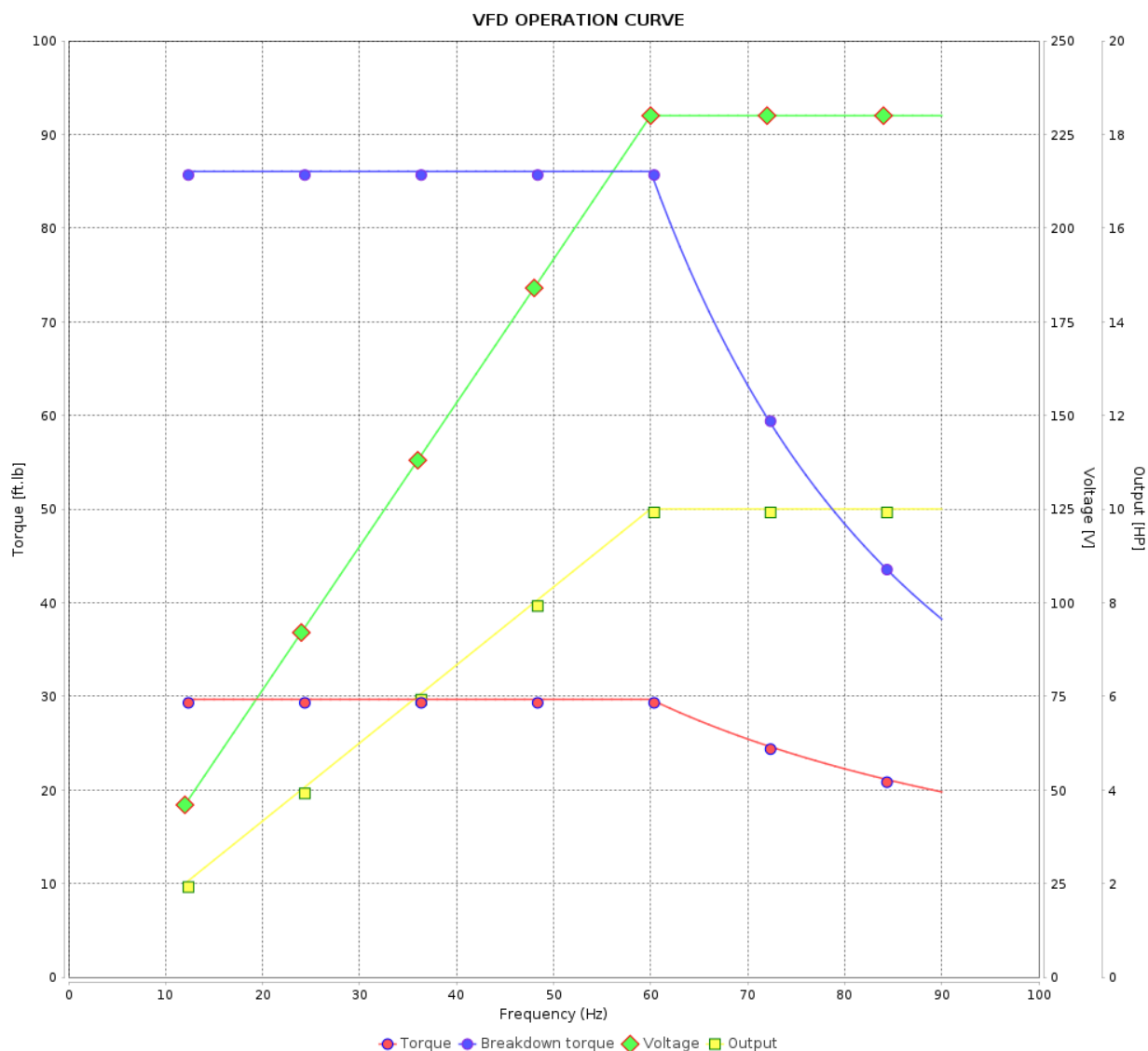


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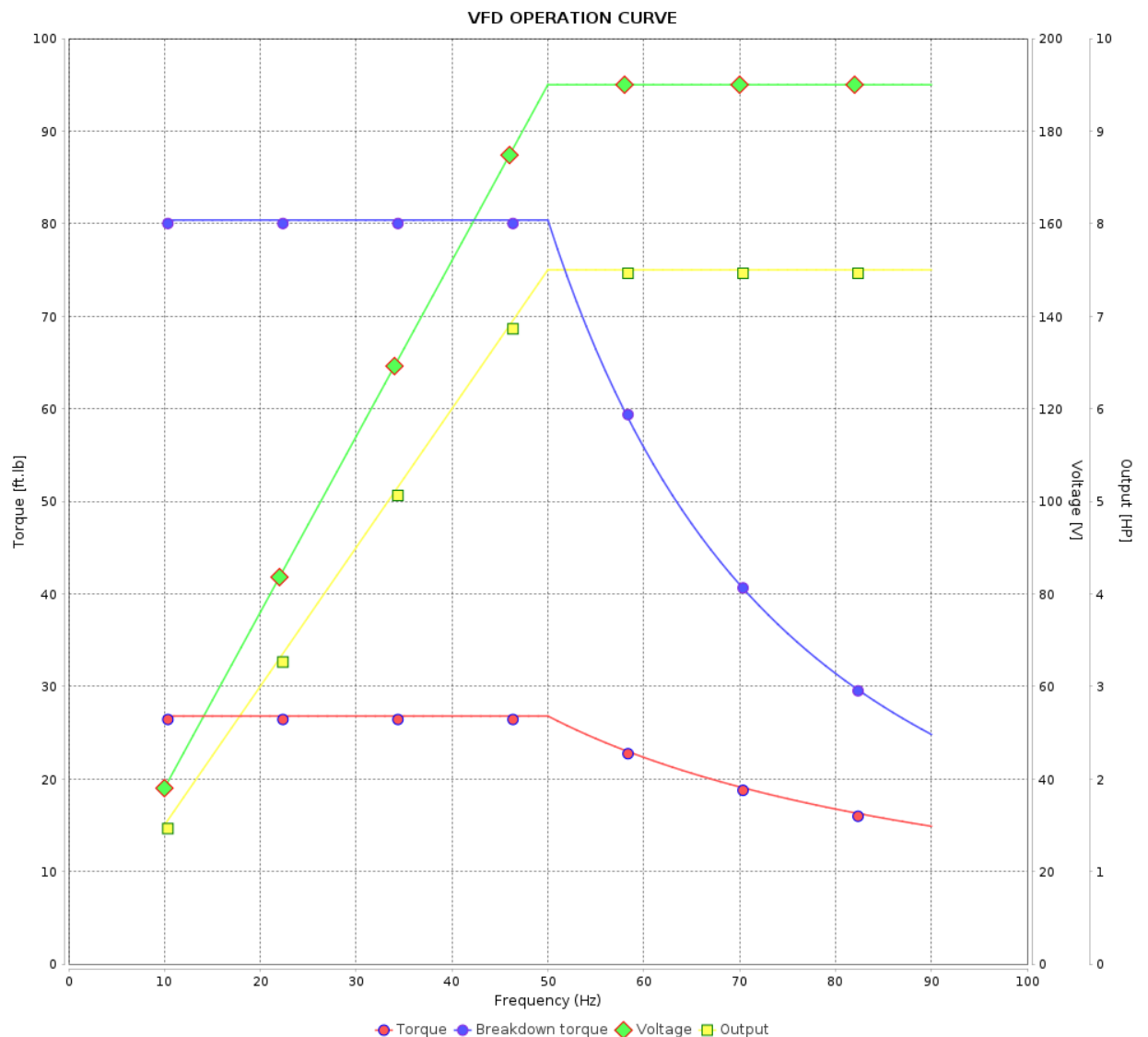


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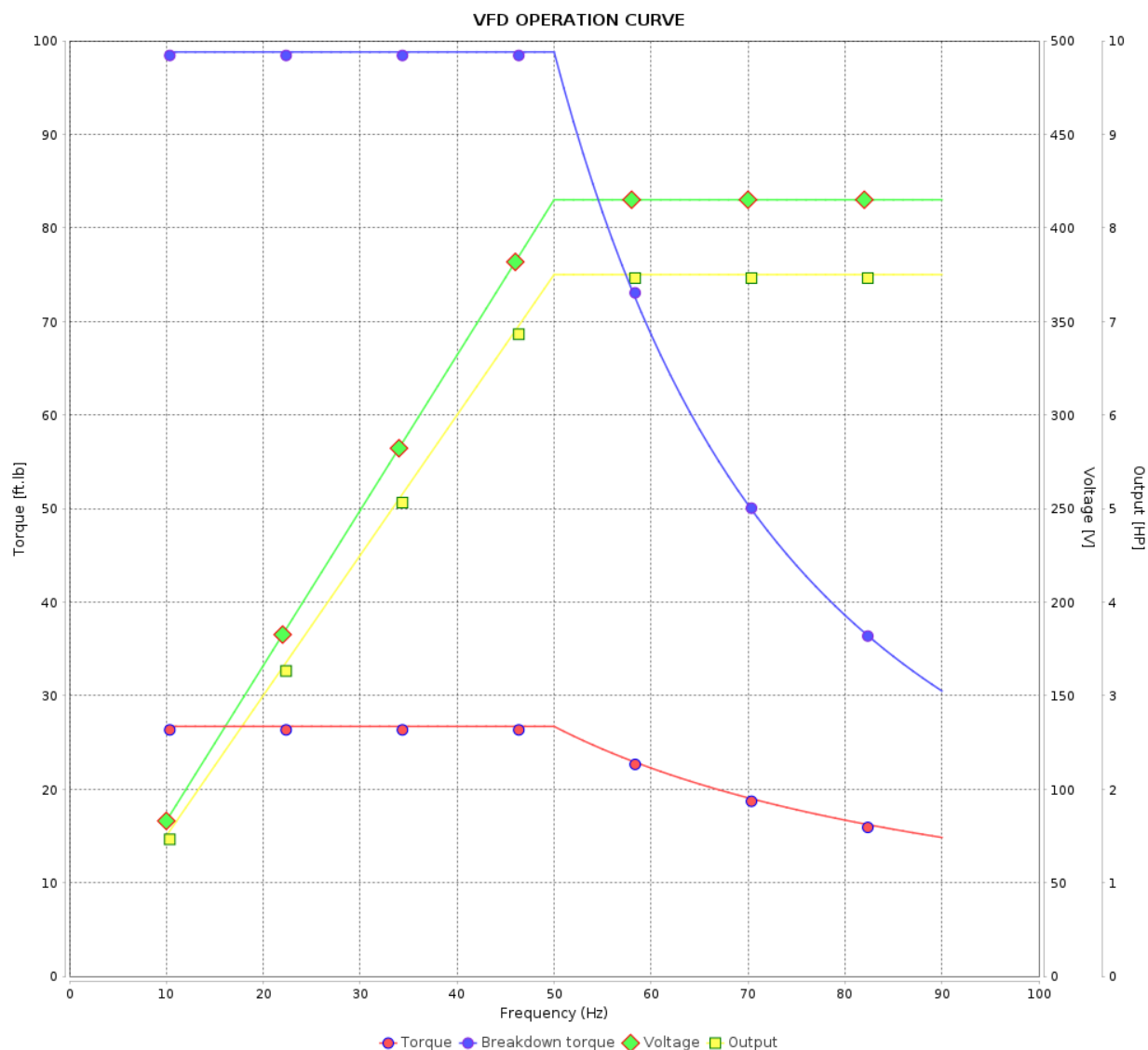


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