

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12674849

Catalog # : 007180T3E213T-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	: 116 lb
Design	: B	Moment of inertia (J)	: 1.03 sq.ft.lb

Output [HP]	7.5	5.5	5.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	18.3/9.14	16.7-14.5/8.37	8.23
L. R. Amperes [A]	133/66.7	127-110/63.6	69.1
LRC [A]	7.3x(Code H)	7.6x(Code J)	8.4x(Code L)
No load current [A]	8.78/4.39	8.60-7.43/4.30	5.10
Rated speed [RPM]	1770	1475	1480
Slip [%]	1.67	1.67	1.33
Rated torque [ft.lb]	22.3	19.6	19.5
Locked rotor torque [%]	200	210	250
Breakdown torque [%]	300	310	380
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	23s (cold) 13s (hot)	43s (cold) 24s (hot)	37s (cold) 21s (hot)
Noise level ²	59.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%		
	50%	89.5	87.0
	75%	90.2	88.2
	100%	91.0	89.0
Power Factor	25%		
	50%	0.65	0.54
	75%	0.78	0.66
	100%	0.83	0.76

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6208 ZZ	6206 ZZ	Max. traction : 361 lb
Sealing	: Without	Without	Max. compression : 475 lb
	Bearing Seal	Bearing Seal	
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 20.5A SF 1.00 SFA 20.5A

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

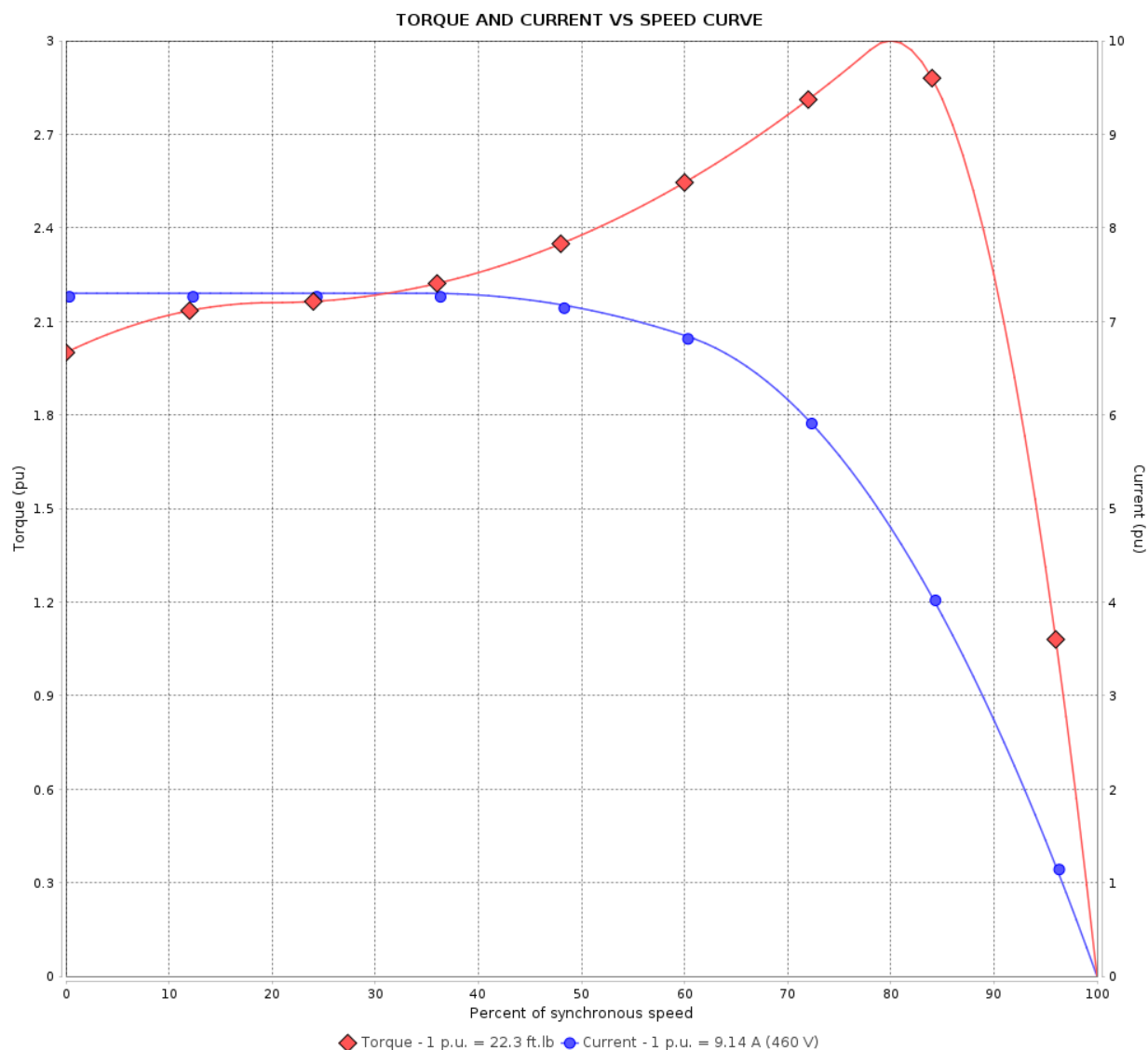


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Product code : 12674849

Catalog # : 007180T3E213T-S



Performance : 230/460 V 60 Hz 4P

Rated current : 18.3/9.14 A
LRC : 7.3
Rated torque : 22.3 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 300 %
Rated speed : 1770 rpm

Moment of inertia (J) : 1.03 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Locked rotor time : 23s (cold) 13s (hot)

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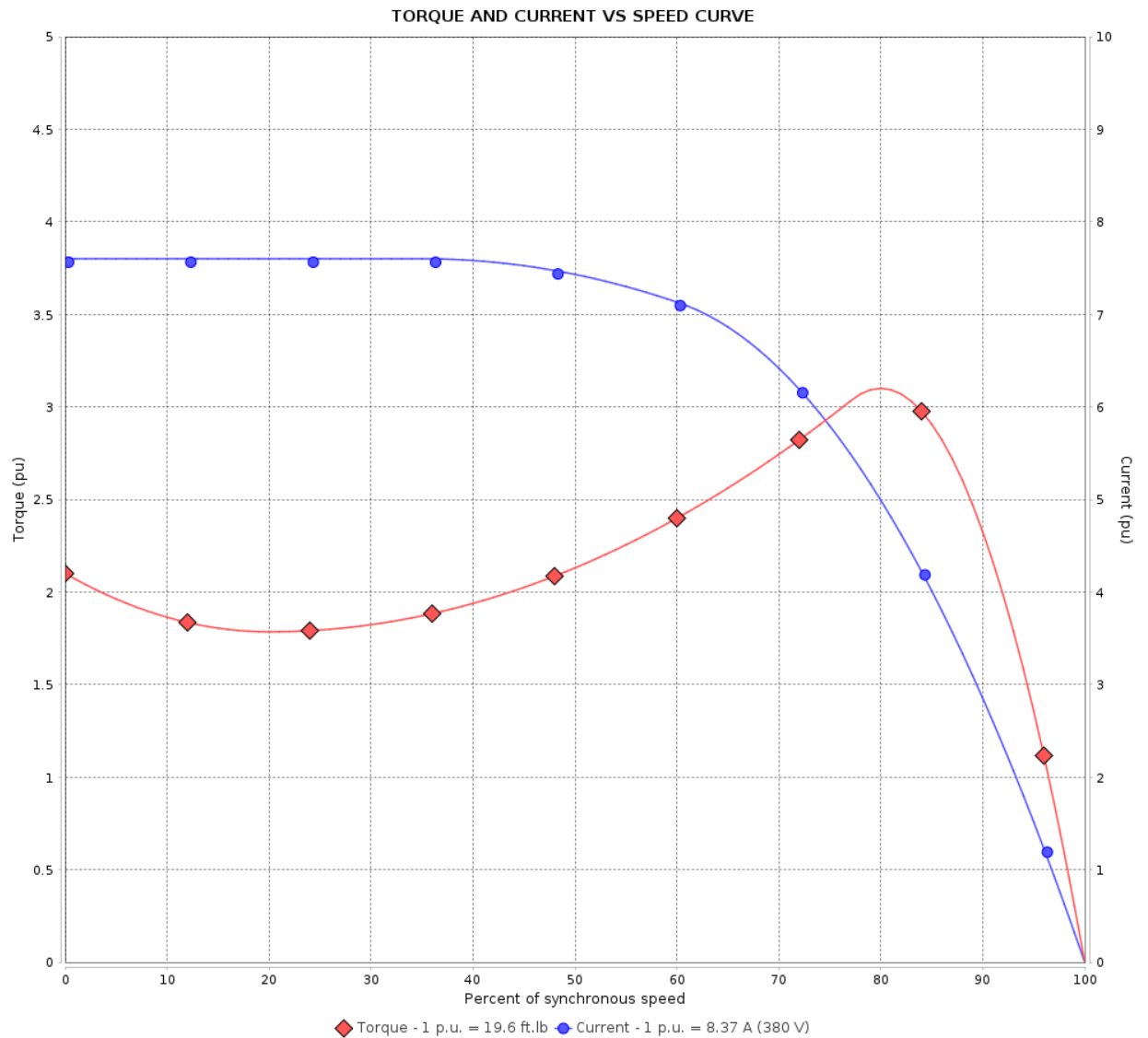


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Performance : 190-220/380 V 50 Hz 4P

Rated current : 16.7-14.5/8.37 A
LRC : 7.6
Rated torque : 19.6 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 310 %
Rated speed : 1475 rpm

Moment of inertia (J) : 1.03 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Locked rotor time : 43s (cold) 24s (hot)

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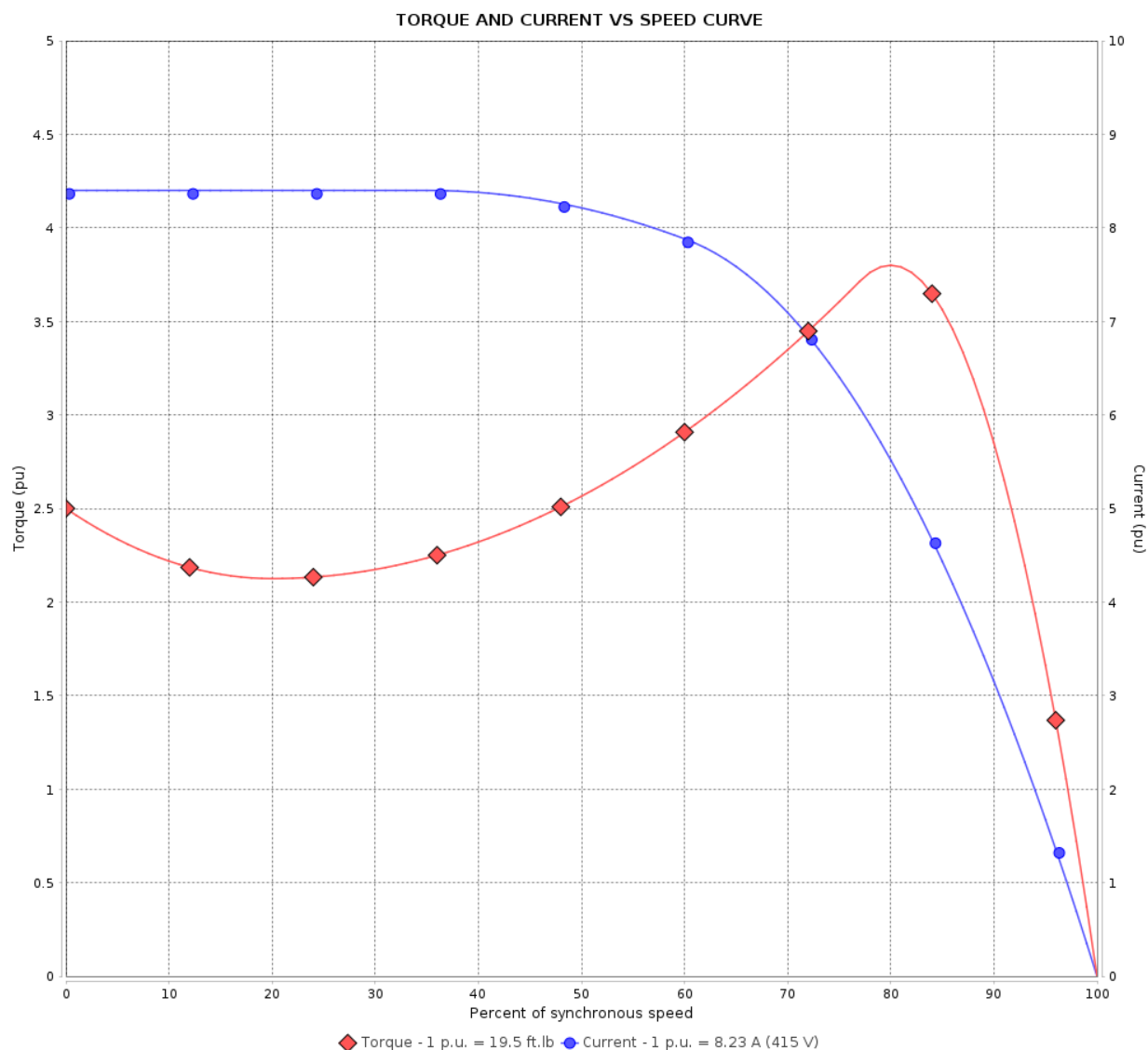


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Performance : 415 V 50 Hz 4P

Rated current	: 8.23 A	Moment of inertia (J)	: 1.03 sq.ft.lb
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 19.5 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

Locked rotor time : 37s (cold) 21s (hot)

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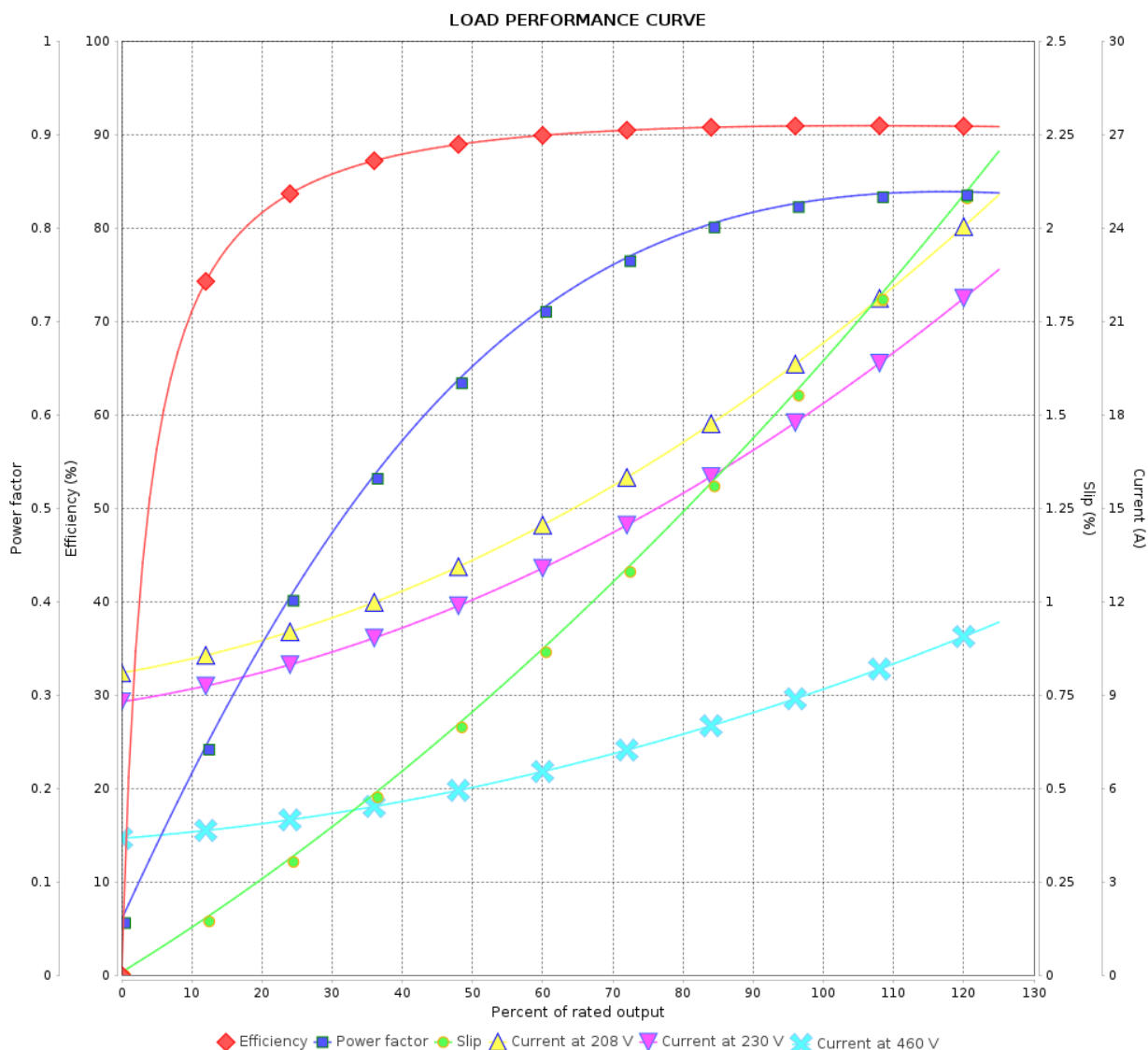


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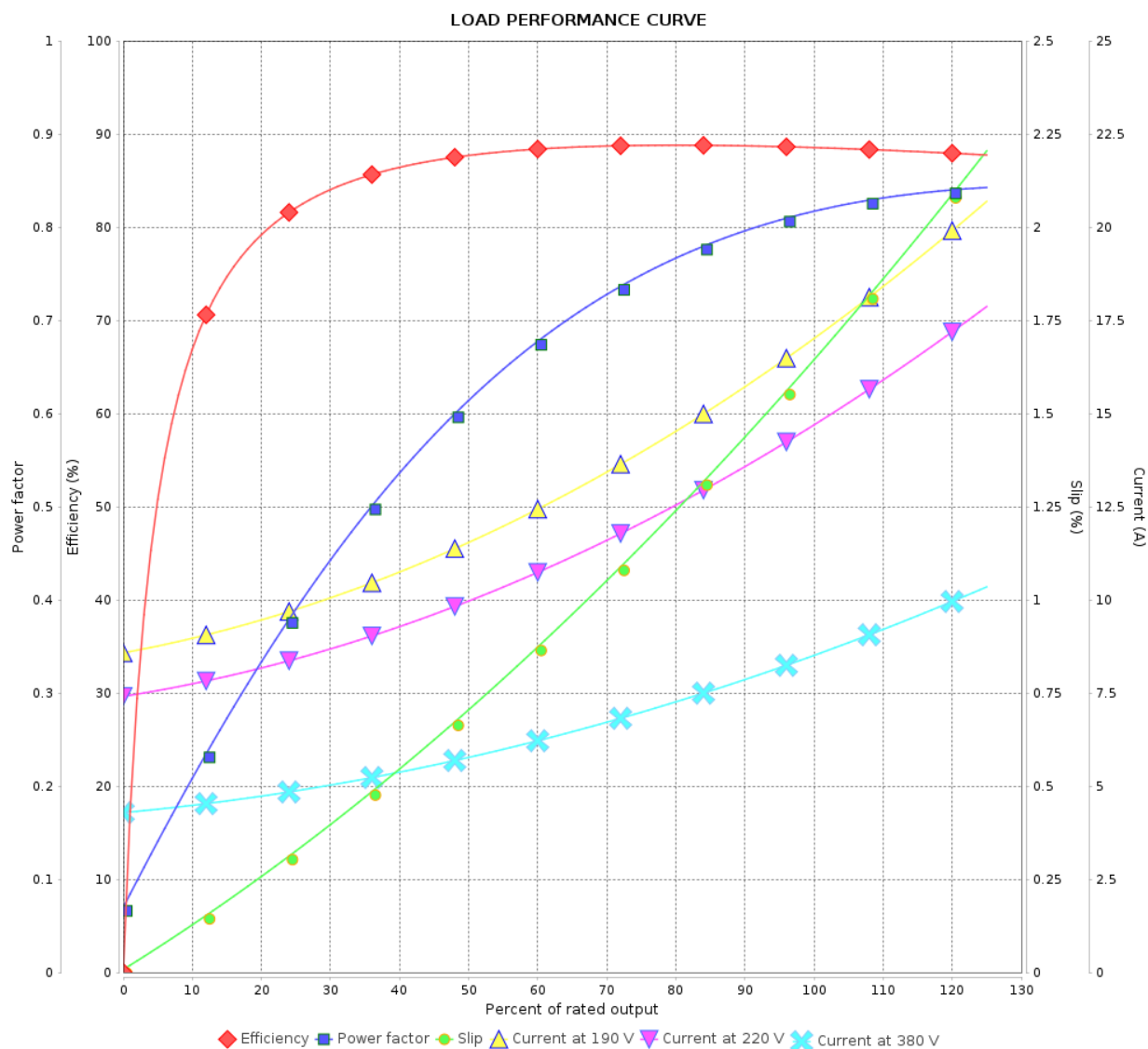


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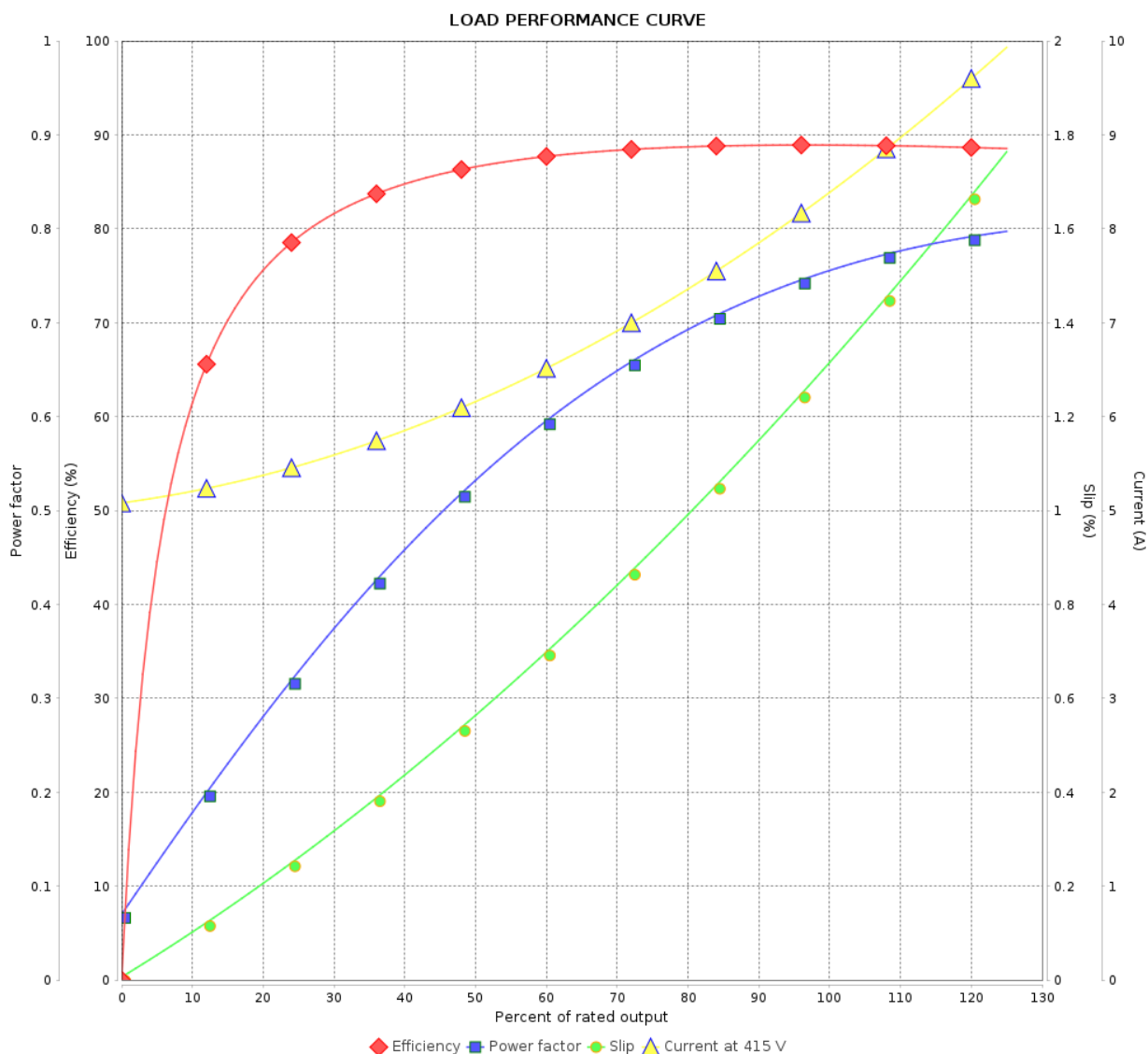


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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

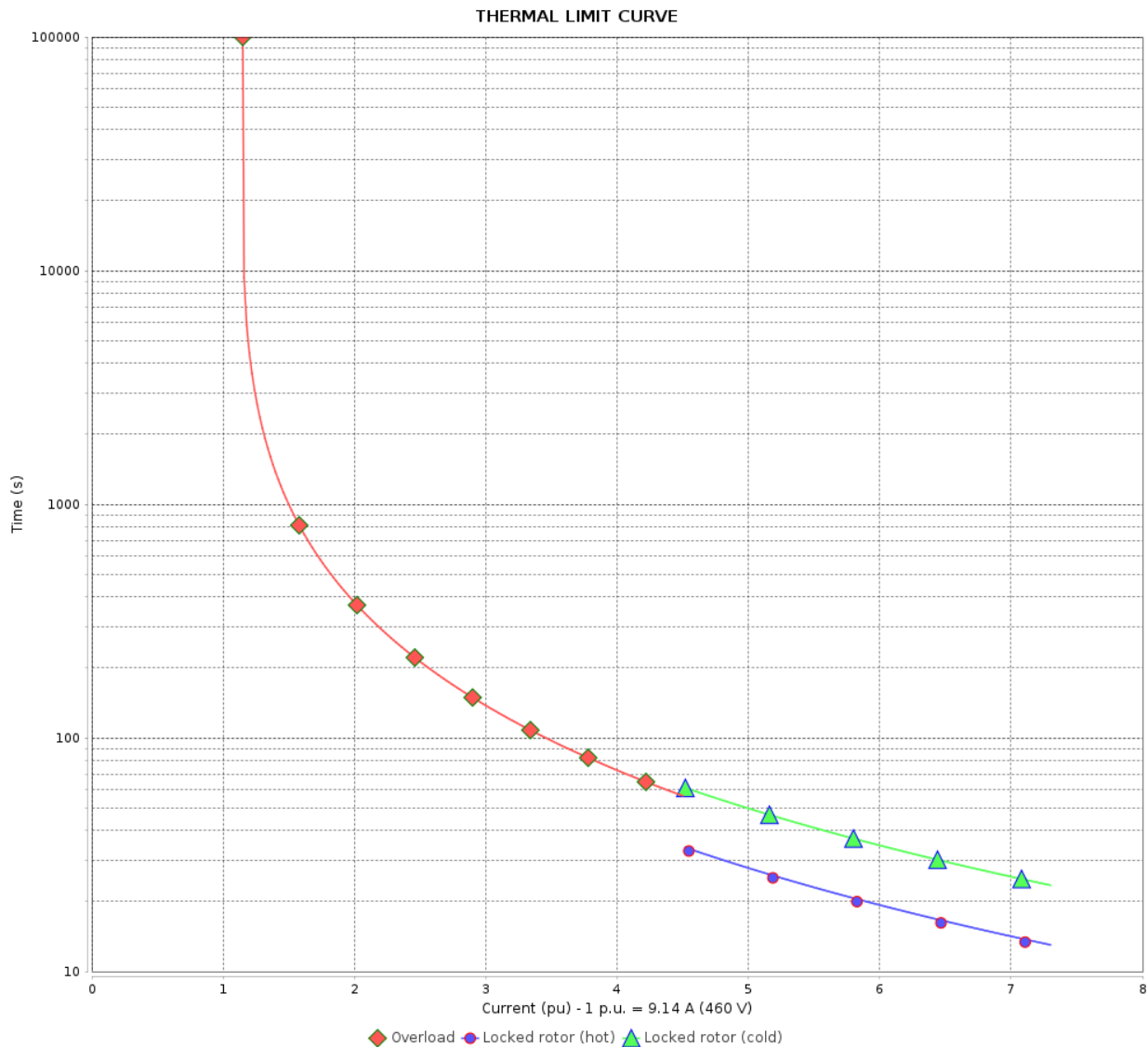
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Breakdown torque : 310 %
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Cooling constant

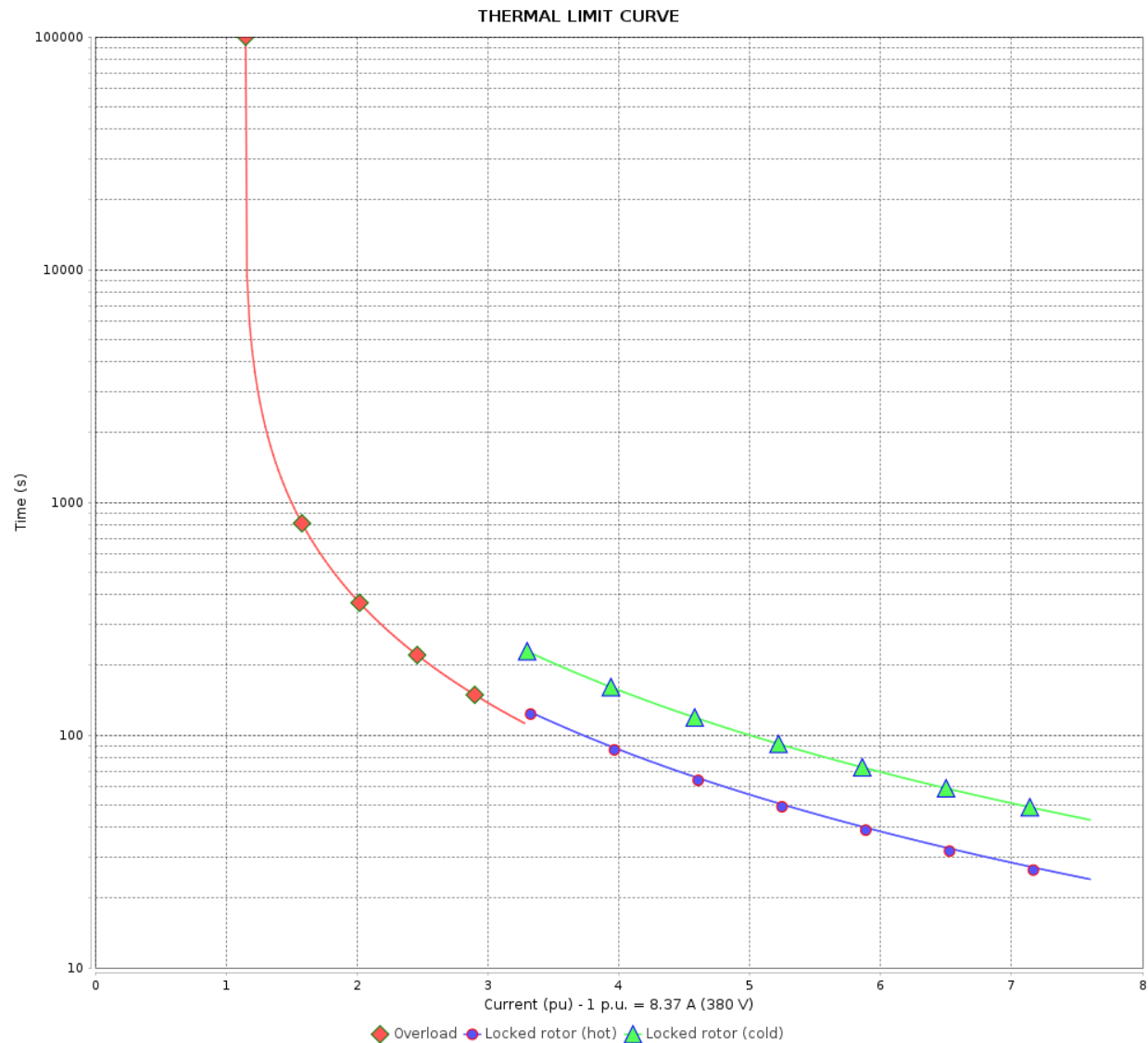
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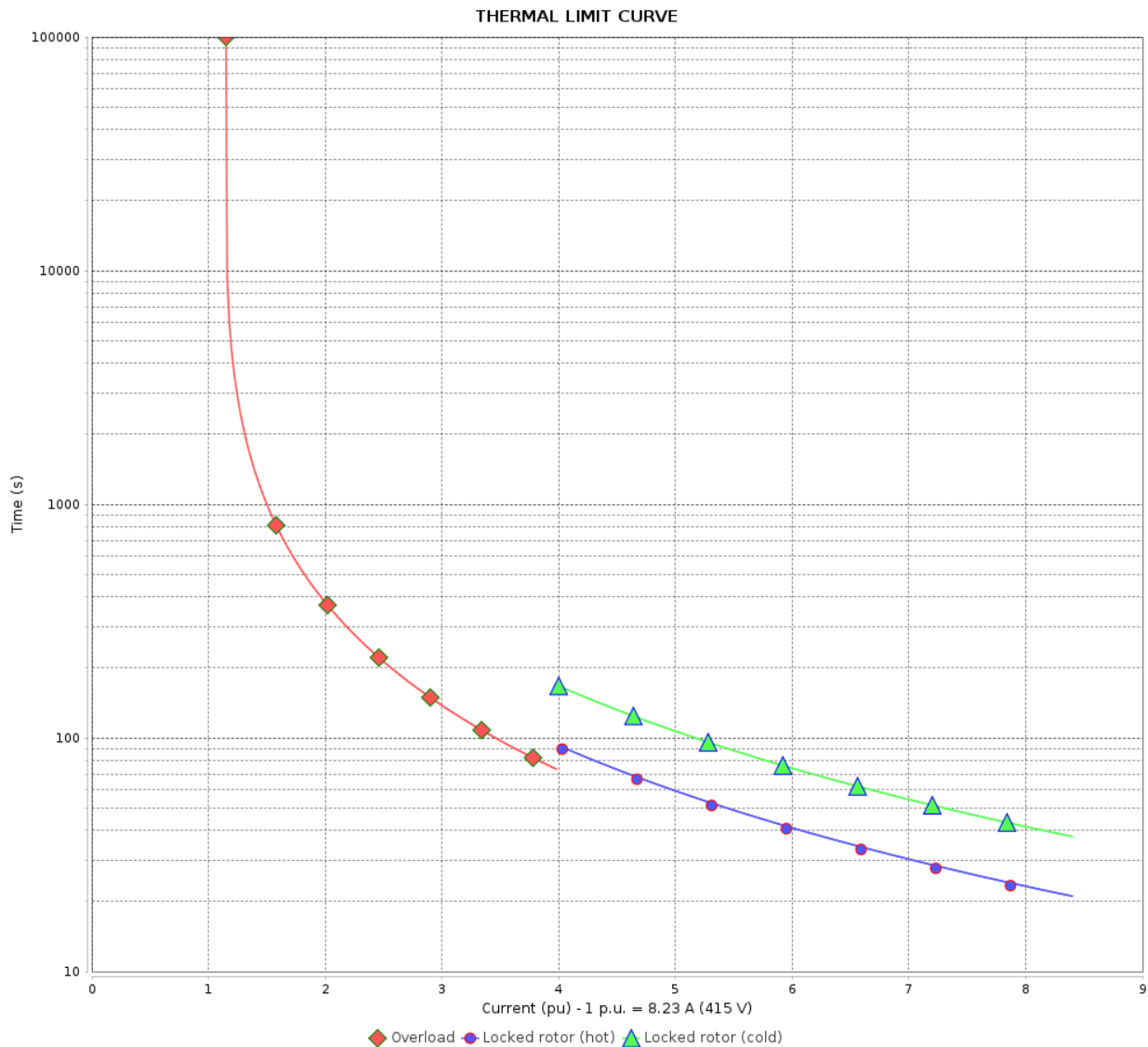
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VFD OPERATION CURVE

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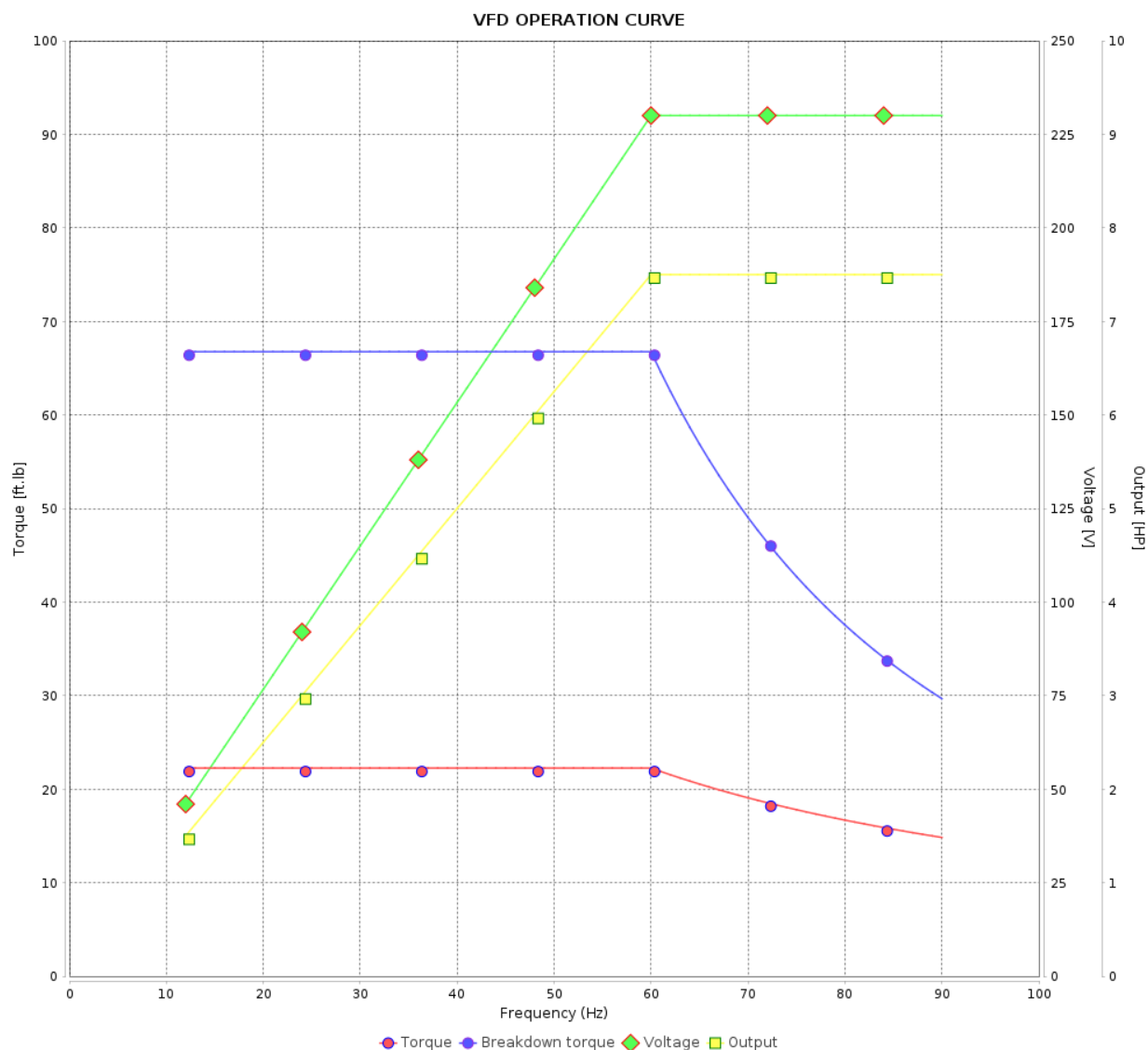


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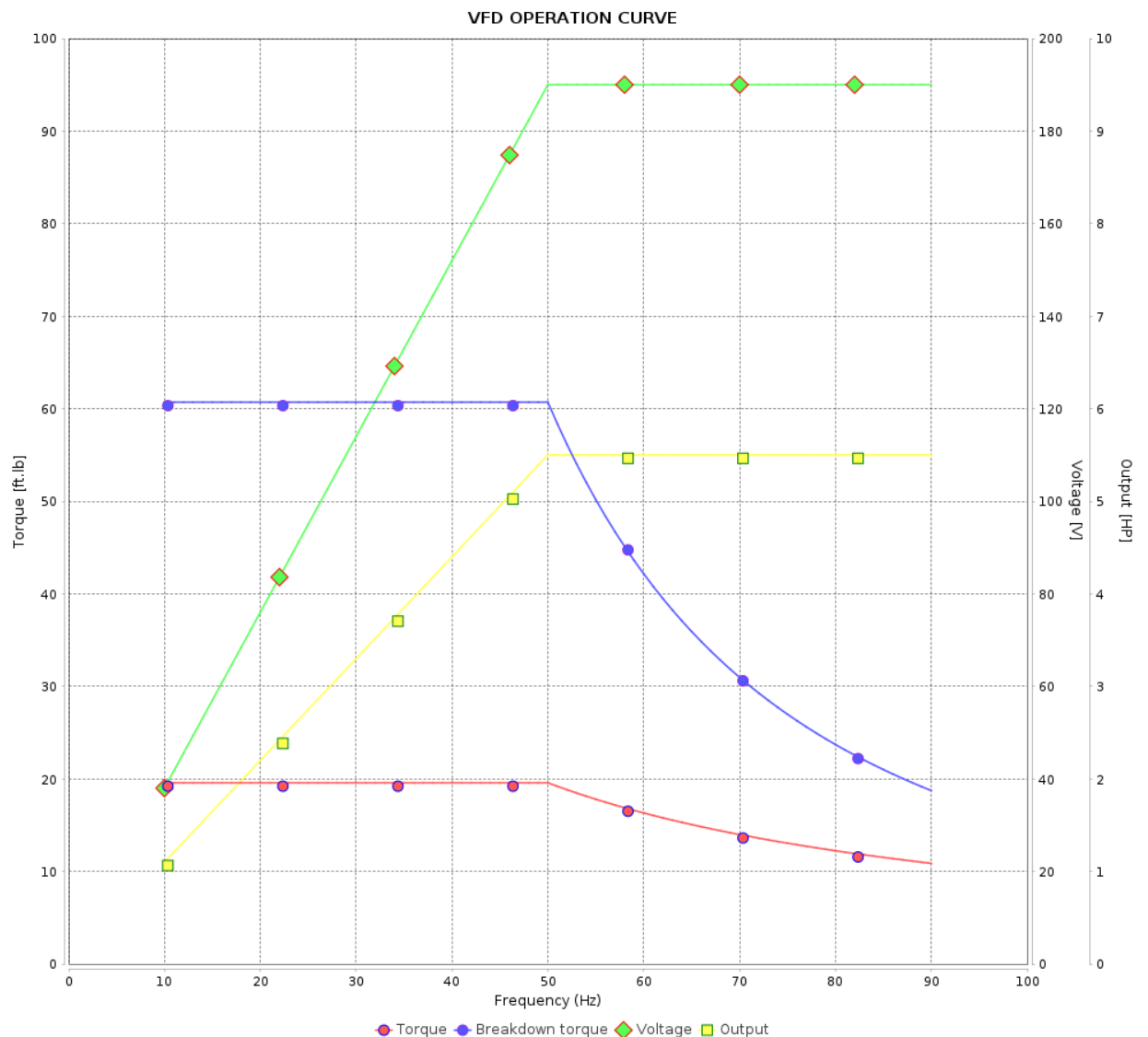


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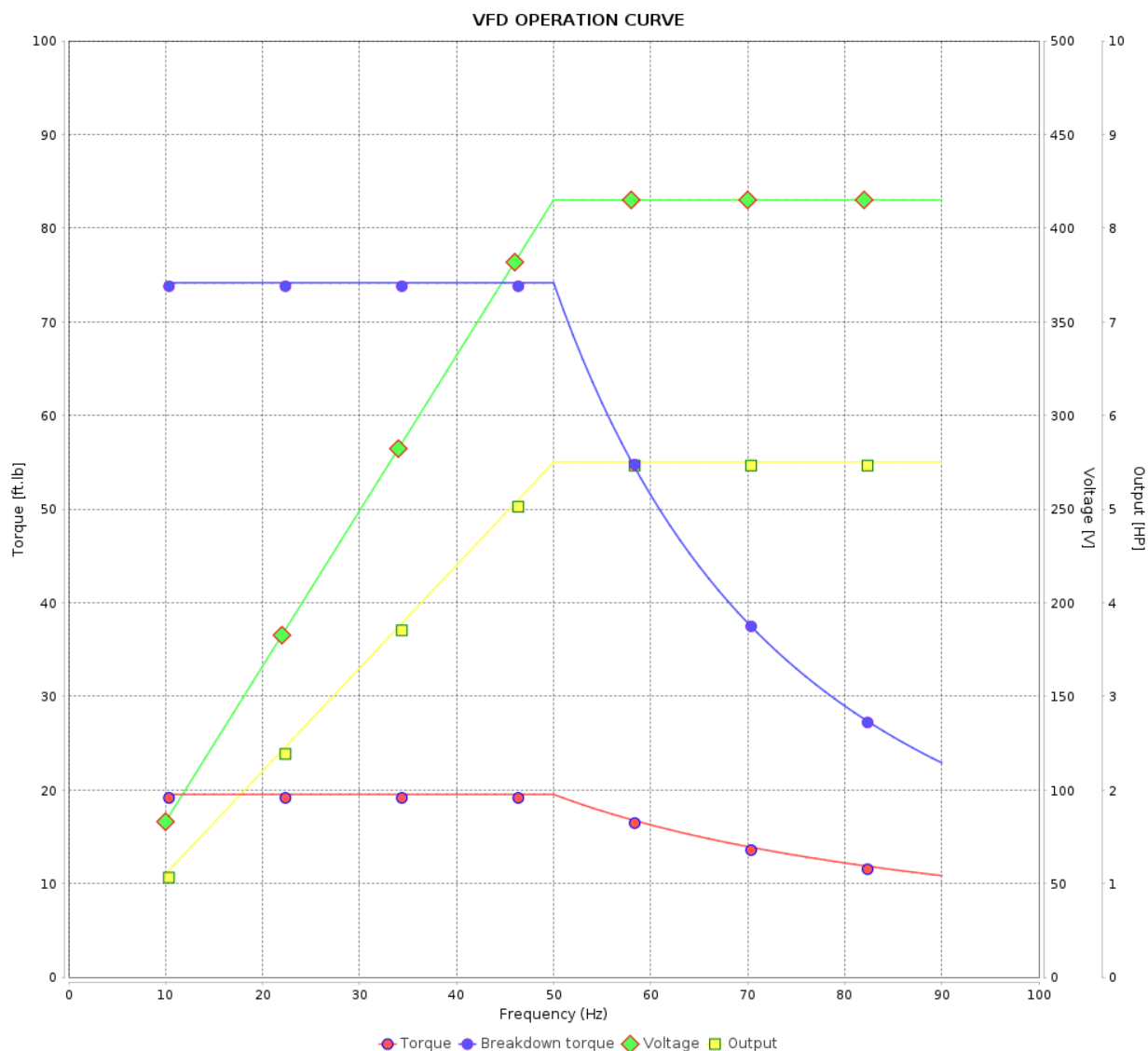


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