

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12751142

Catalog # : 00536OT3E182T-S

Frame	: 182/4T	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	: 58.7 lb
Design	: B	Moment of inertia (J)	: 0.1386 sq.ft.lb

Output [HP]	5	3	3
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	12.6/6.32	9.98-8.62/4.99	5.30
L. R. Amperes [A]	96.1/48.0	91.8-79.3/45.9	51.9
LRC [A]	7.6x(Code J)	9.2x(Code M)	9.8x(Code N)
No load current [A]	6.20/3.10	6.00-5.18/3.00	4.00
Rated speed [RPM]	3510	2940	2950
Slip [%]	2.50	2.00	1.67
Rated torque [ft.lb]	7.48	5.36	5.34
Locked rotor torque [%]	190	229	280
Breakdown torque [%]	300	420	490
Service factor	1.15	1.00	1.00
Temperature rise	80 K	80 K	80 K
Locked rotor time	27s (cold) 15s (hot)	34s (cold) 19s (hot)	25s (cold) 14s (hot)
Noise level ²	65.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%		
	50%	85.5	81.6
	75%	86.5	84.8
	100%	86.5	85.9
Power Factor	25%		
	50%	0.66	0.56
	75%	0.78	0.70
	100%	0.85	0.78

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6206 ZZ	6205 ZZ	Max. traction : 141 lb
Sealing	: Without	Without	Max. compression : 193 lb
	Bearing Seal	Bearing Seal	
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 13.5A SF 1.00 SFA 13.5A

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

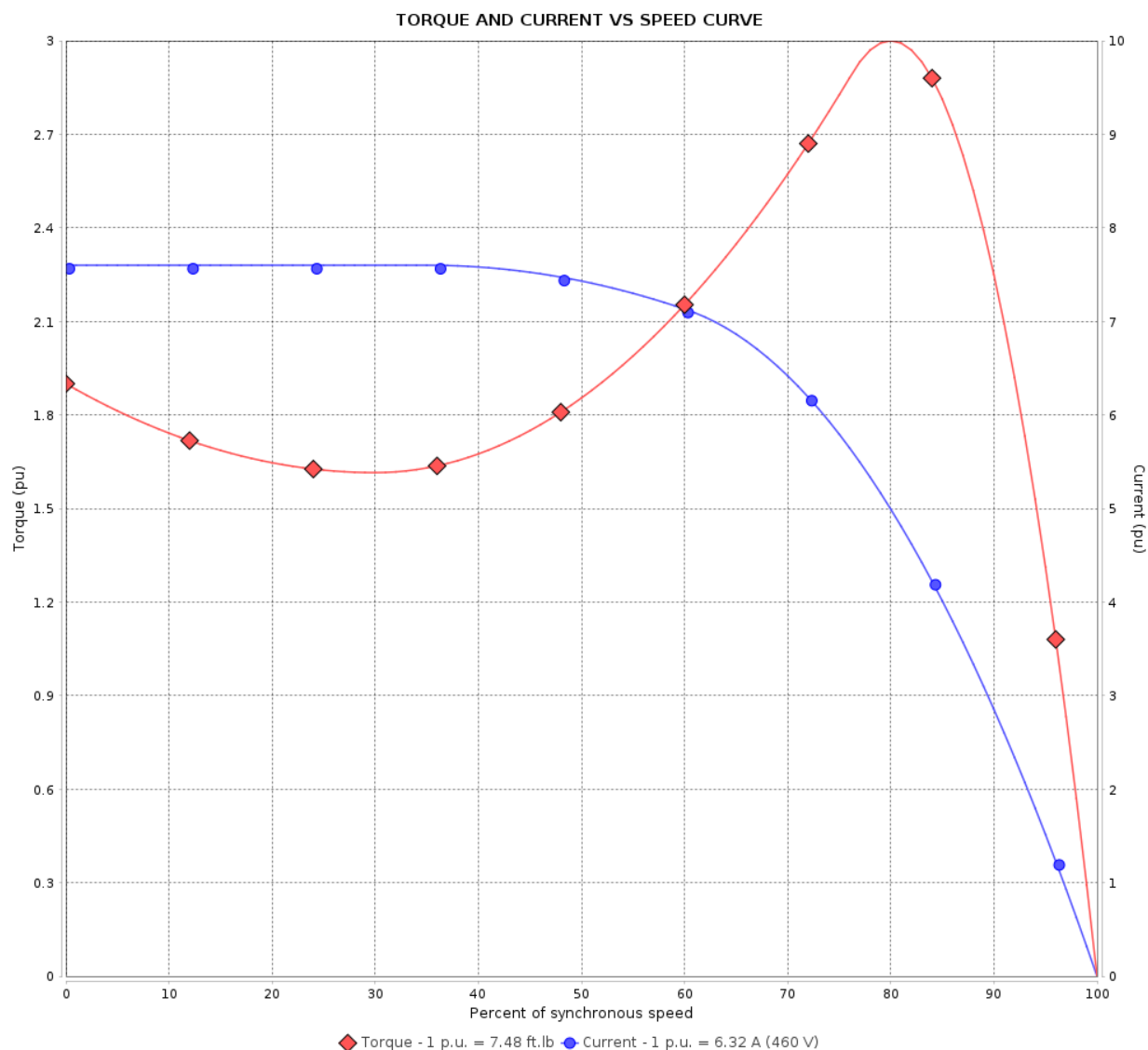


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Catalog # : 00536OT3E182T-S



Performance : 230/460 V 60 Hz 2P

Rated current : 12.6/6.32 A
LRC : 7.6
Rated torque : 7.48 ft.lb
Locked rotor torque : 190 %
Breakdown torque : 300 %
Rated speed : 3510 rpm

Moment of inertia (J) : 0.1386 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Locked rotor time : 27s (cold) 15s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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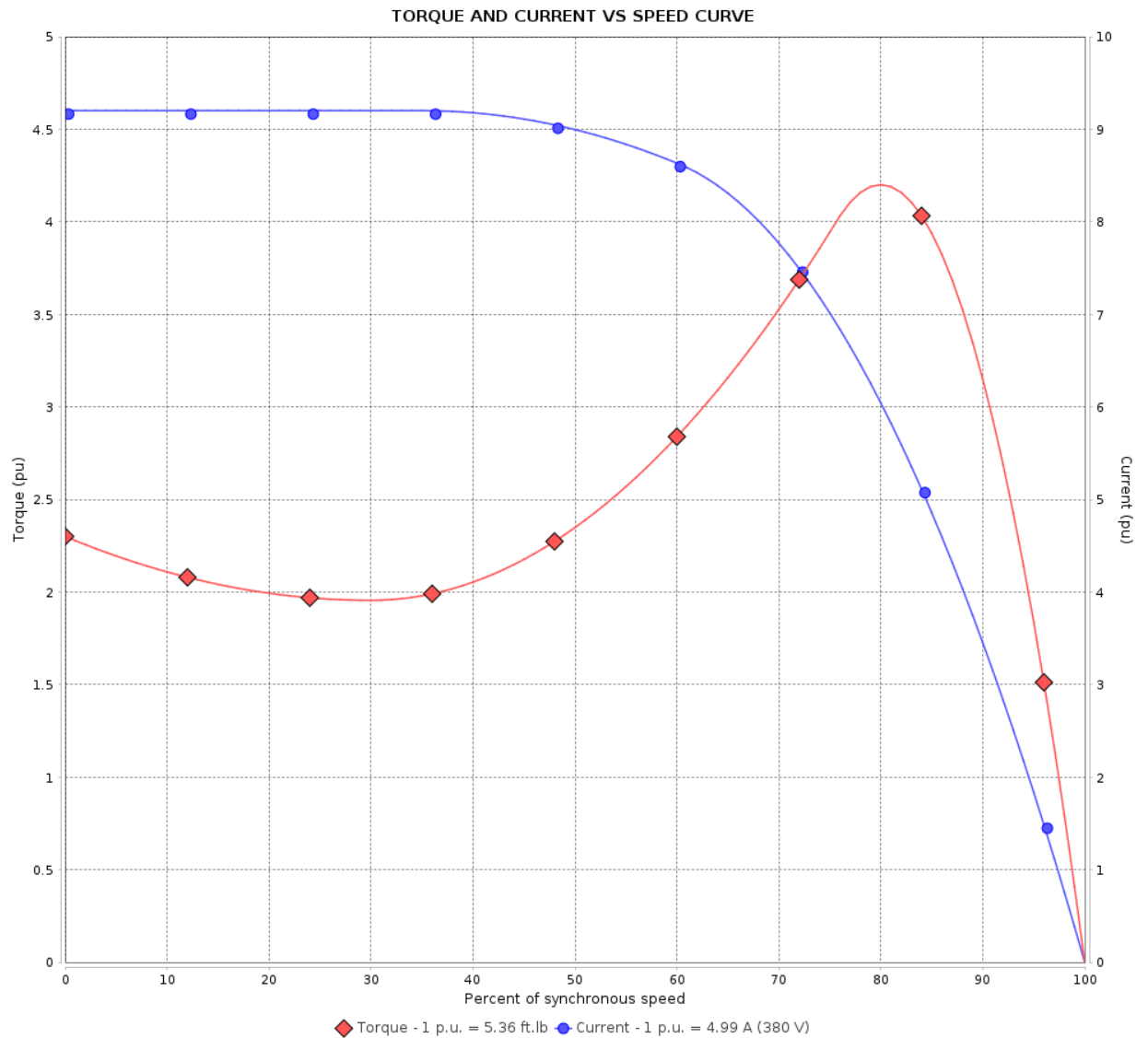


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Catalog # : 00536OT3E182T-S



Performance : 190-220/380 V 50 Hz 2P

Rated current : 9.98-8.62/4.99 A
LRC : 9.2
Rated torque : 5.36 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 420 %
Rated speed : 2940 rpm

Moment of inertia (J) : 0.1386 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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

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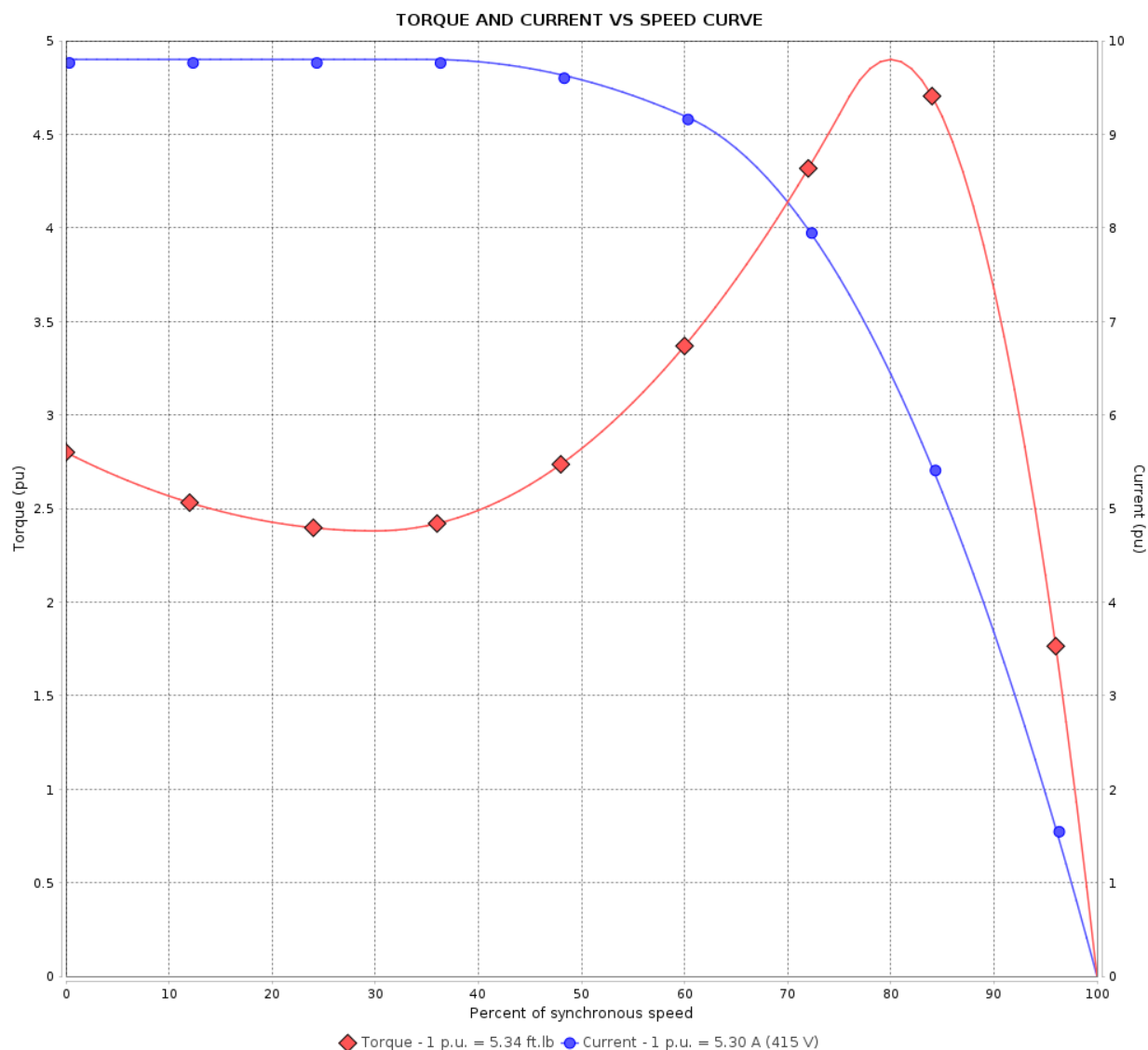


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Catalog # : 00536OT3E182T-S



Performance : 415 V 50 Hz 2P

Rated current	: 5.30 A	Moment of inertia (J)	: 0.1386 sq.ft.lb
LRC	: 9.8	Duty cycle	: Cont.(S1)
Rated torque	: 5.34 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 490 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

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

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LOAD PERFORMANCE CURVE

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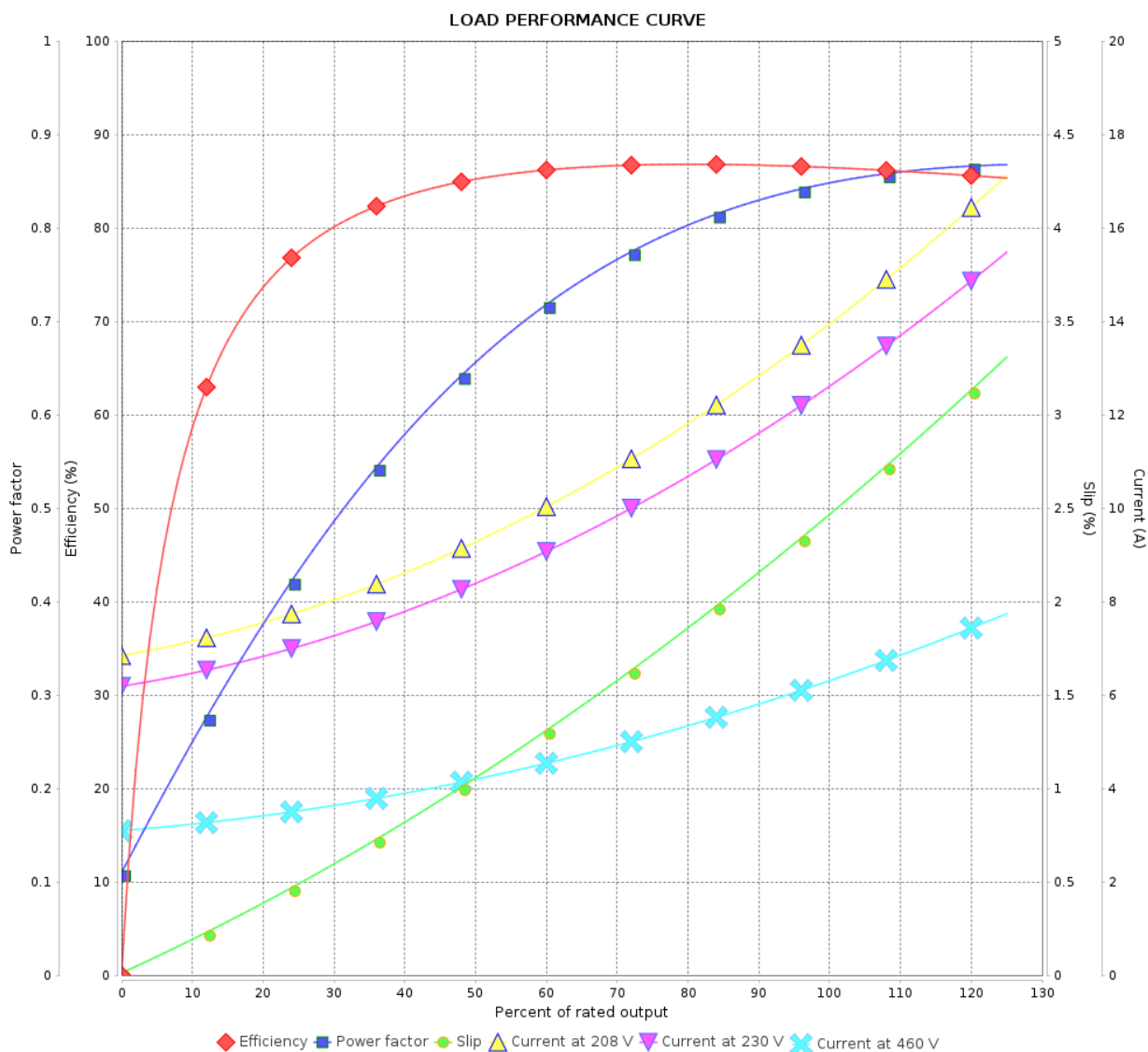


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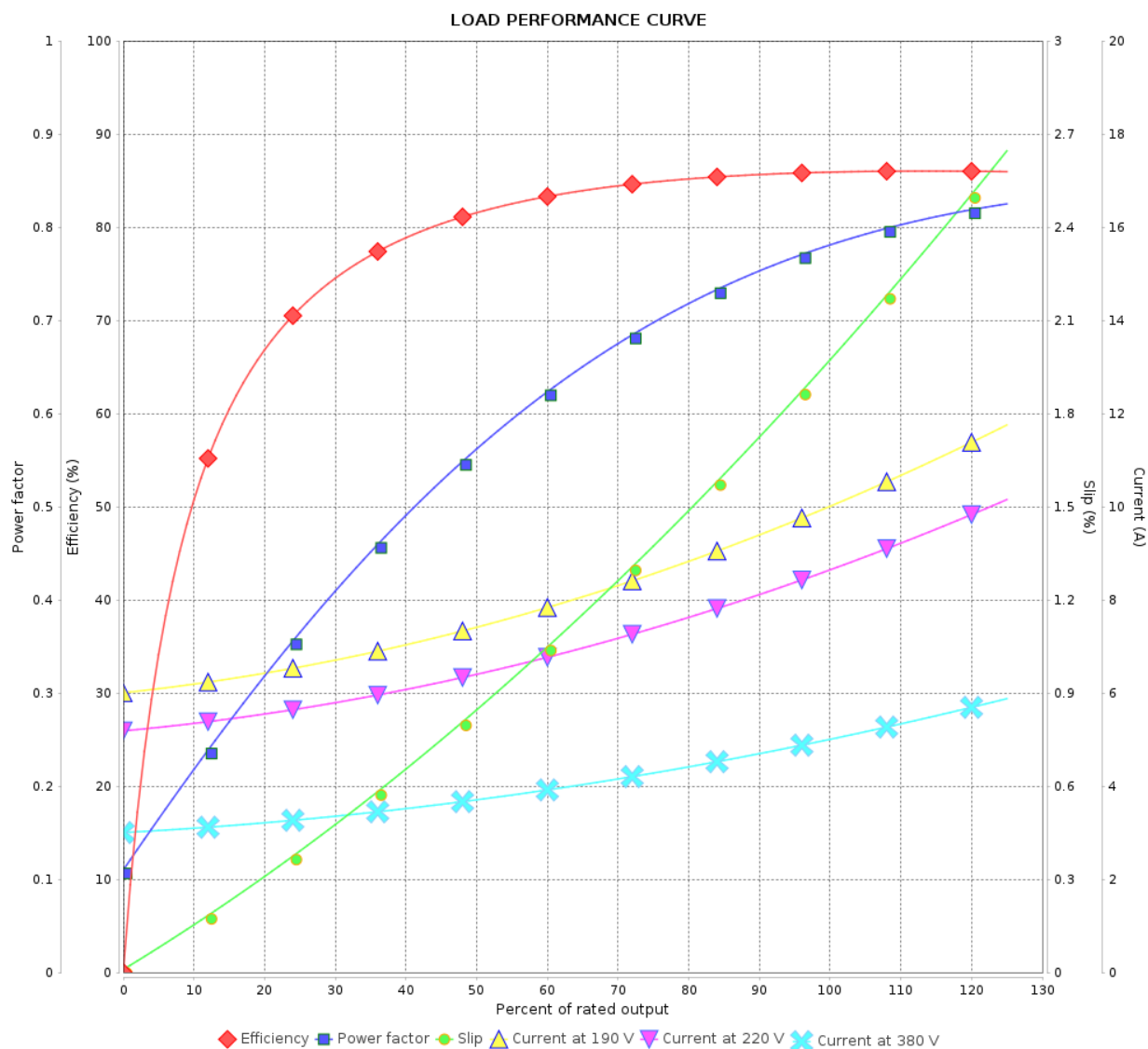


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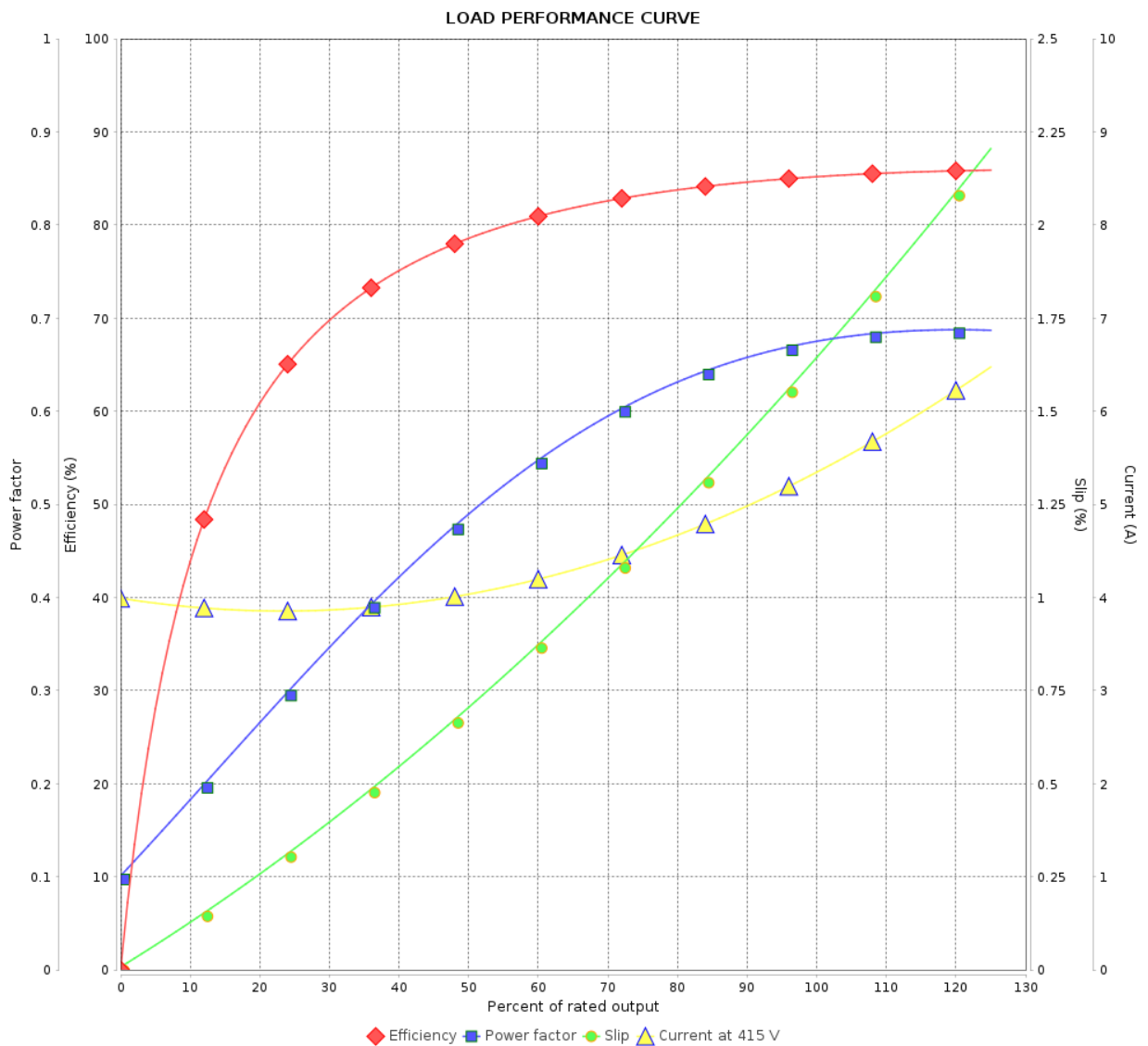


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THERMAL LIMIT CURVE

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Temperature rise : 80 K
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Heating constant

Cooling constant

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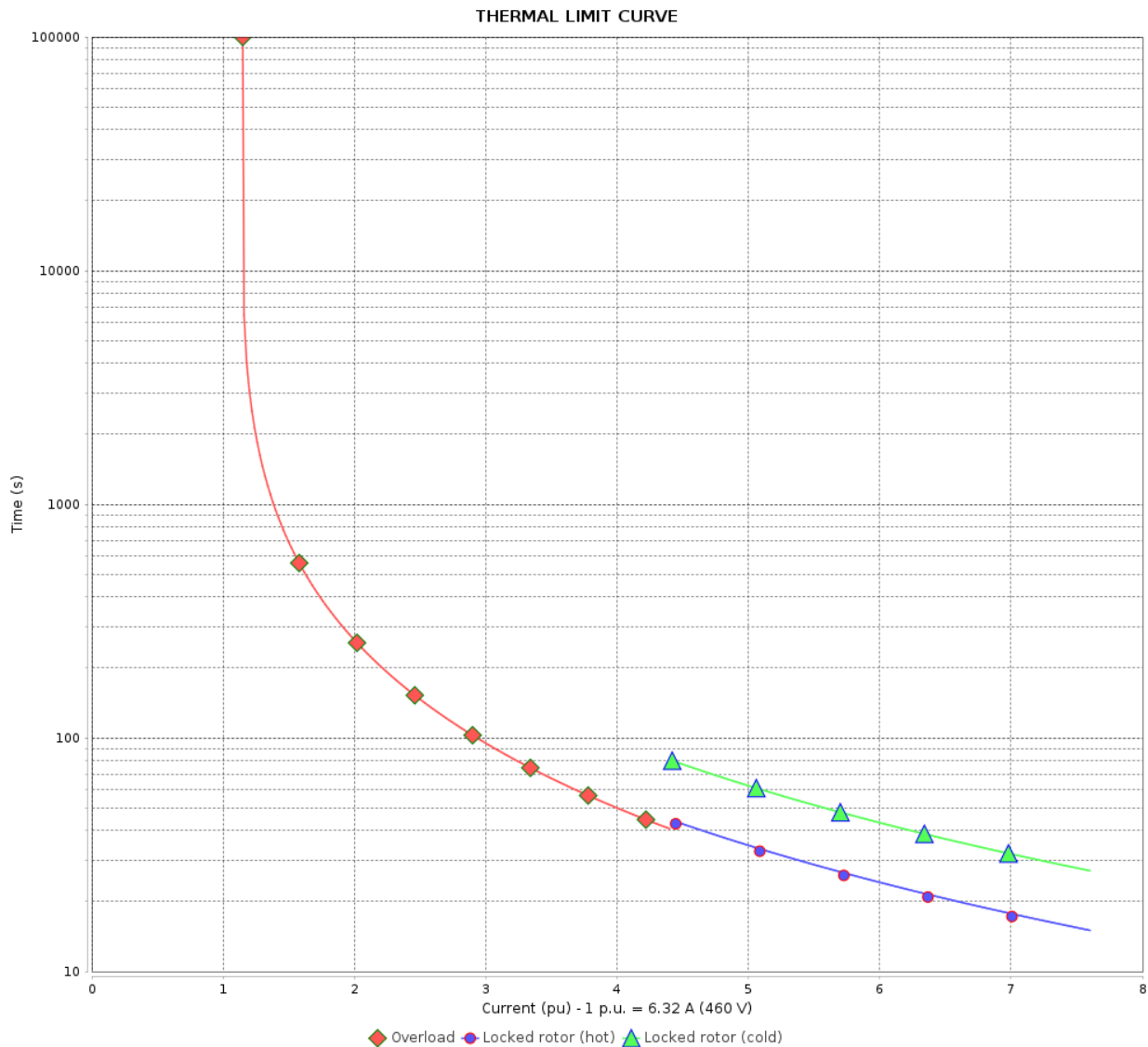
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Cooling constant

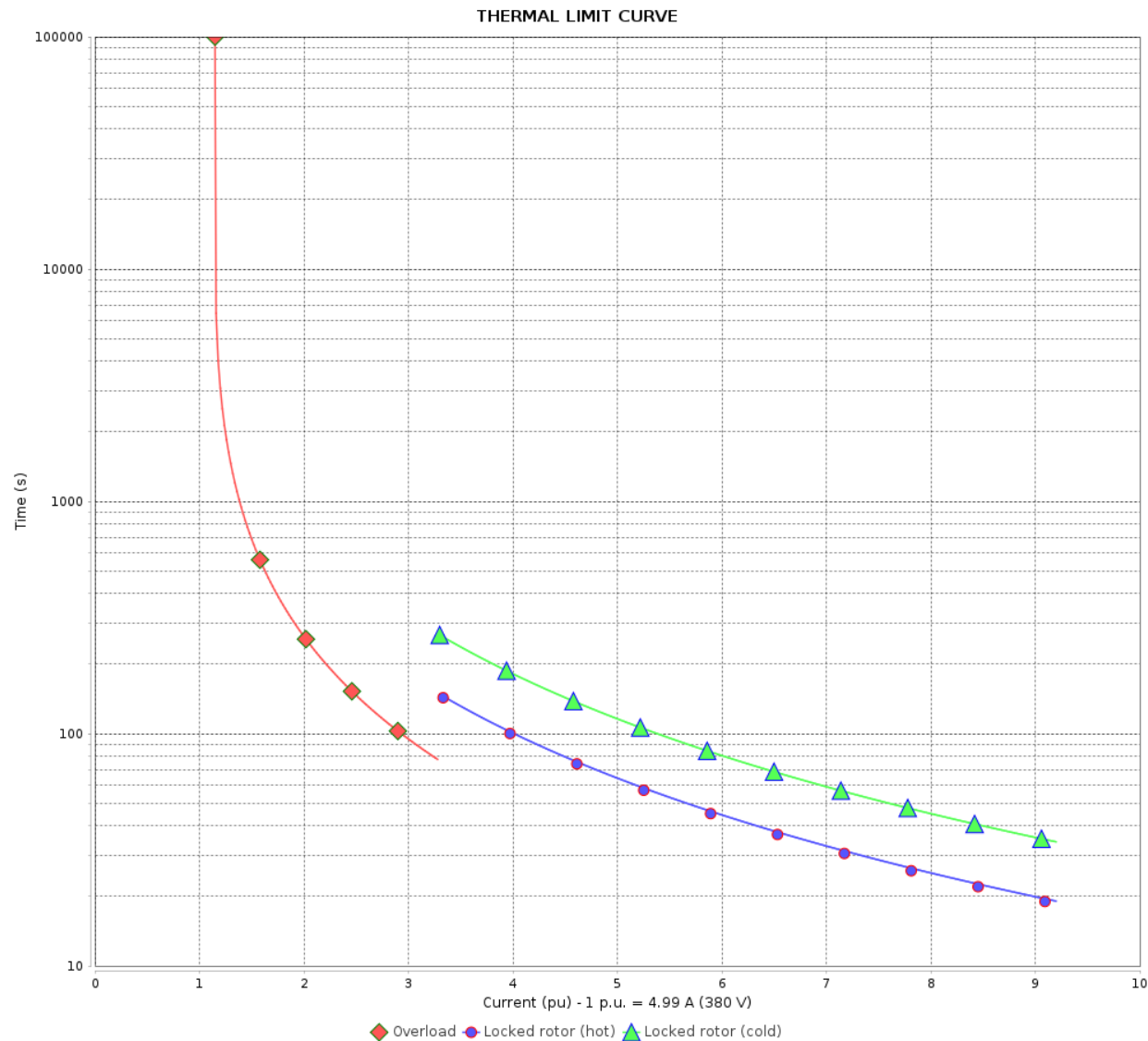
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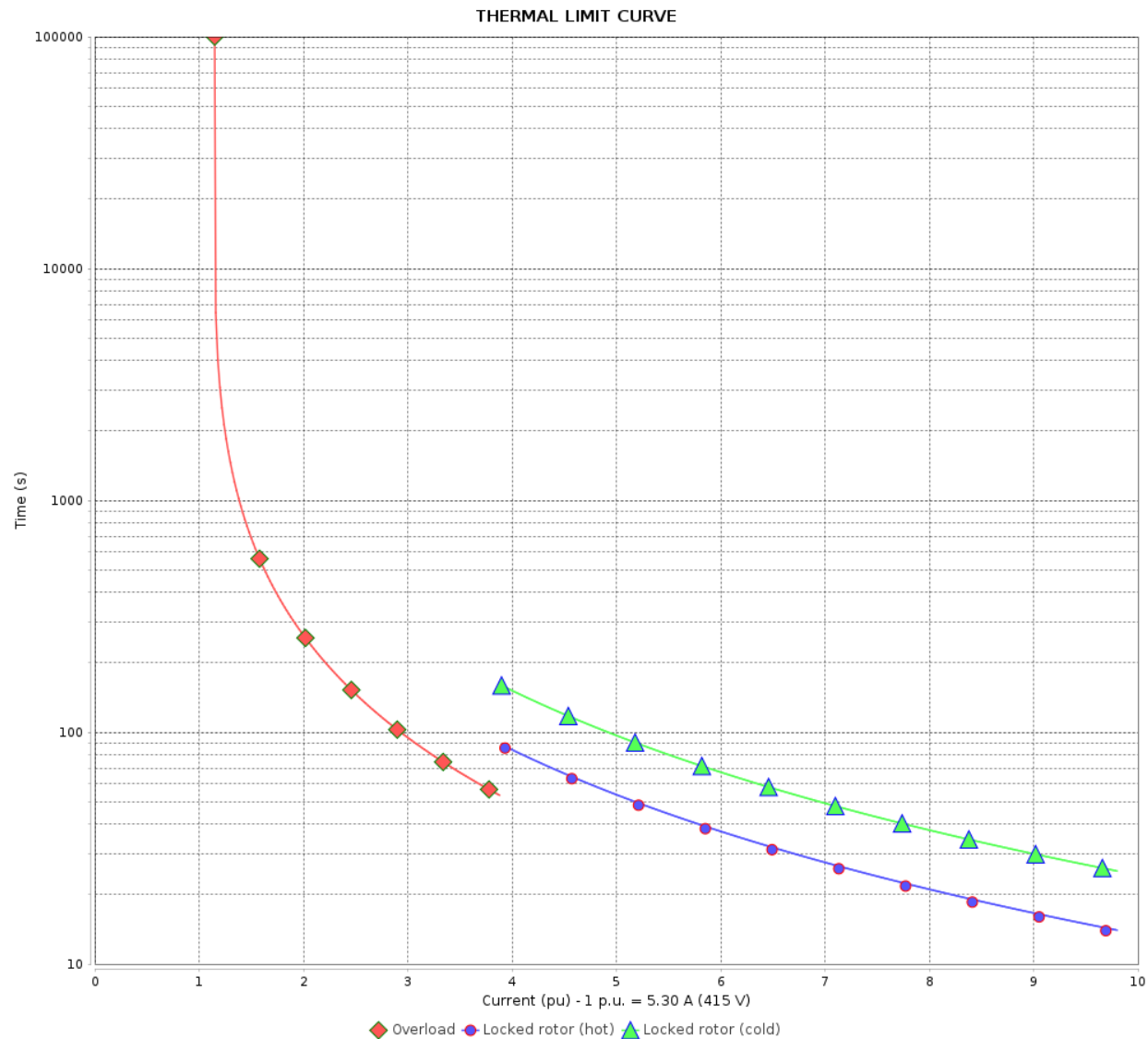
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VFD OPERATION CURVE

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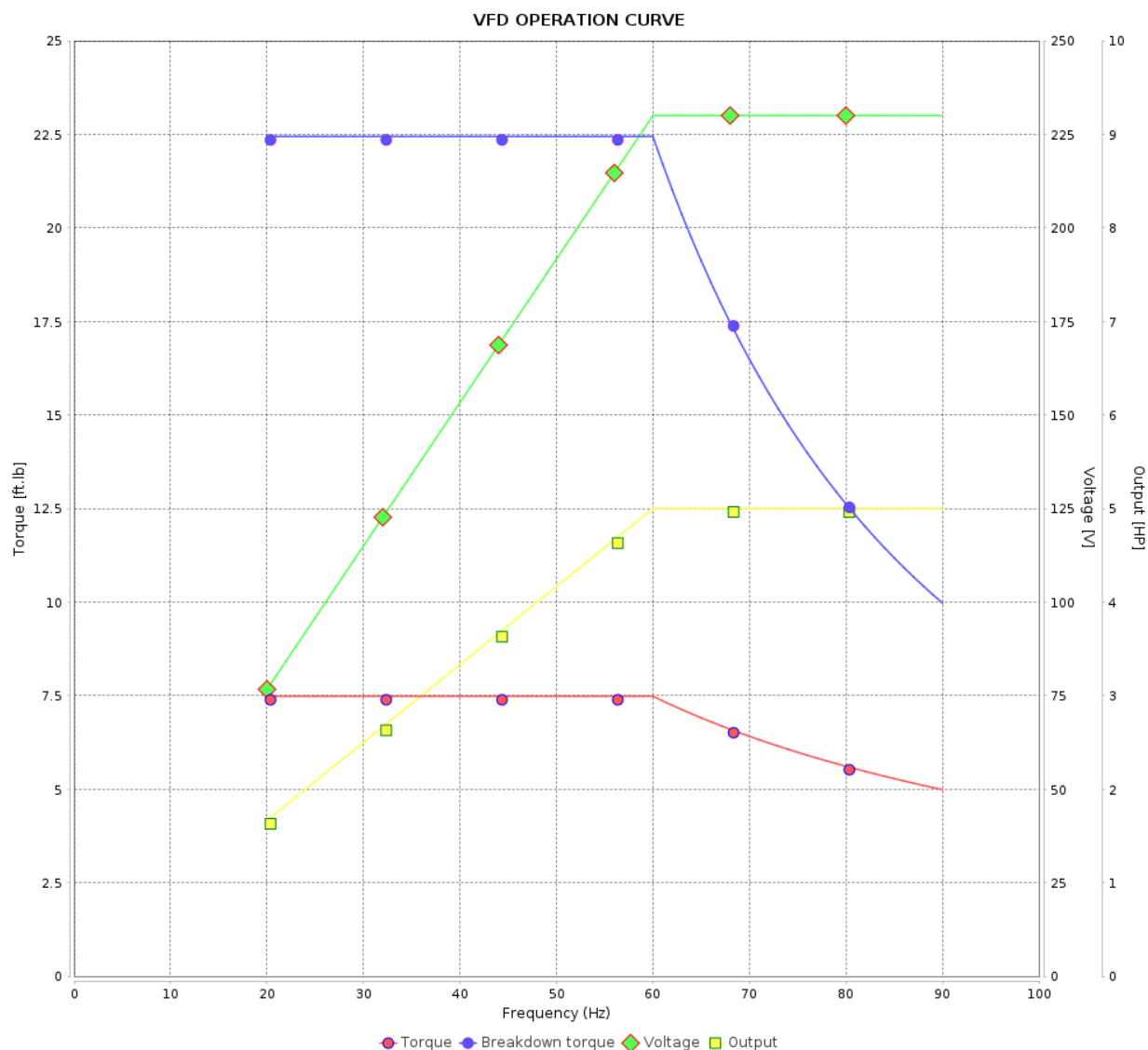


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