

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12751144

Catalog # : 00736OT3E184T-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	: 69.9 lb
Design	: B	Moment of inertia (J)	: 0.1818 sq.ft.lb

Output [HP]	7.5	5.5	5.5
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	17.9/8.97	16.0-13.9/8.02	7.90
L. R. Amperes [A]	133/66.4	128-111/64.2	71.1
LRC [A]	7.4x(Code H)	8.0x(Code J)	9.0x(Code L)
No load current [A]	7.80/3.90	7.60-6.56/3.80	4.80
Rated speed [RPM]	3500	2915	2930
Slip [%]	2.78	2.83	2.33
Rated torque [ft.lb]	11.3	9.91	9.86
Locked rotor torque [%]	200	210	250
Breakdown torque [%]	300	320	400
Service factor	1.15	1.00	1.00
Temperature rise	80 K	80 K	80 K
Locked rotor time	19s (cold) 11s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)
Noise level ²	65.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%		
	50%	88.5	87.0
	75%	88.5	87.9
	100%	88.5	88.1
Power Factor	25%		
	50%	0.72	0.68
	75%	0.82	0.80
	100%	0.87	0.86

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6206 ZZ	6205 ZZ	Max. traction : 221 lb
Sealing	: Without	Without	Max. compression : 282 lb
	Bearing Seal	Bearing Seal	
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 19.2A SF 1.00 SFA 19.2A

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

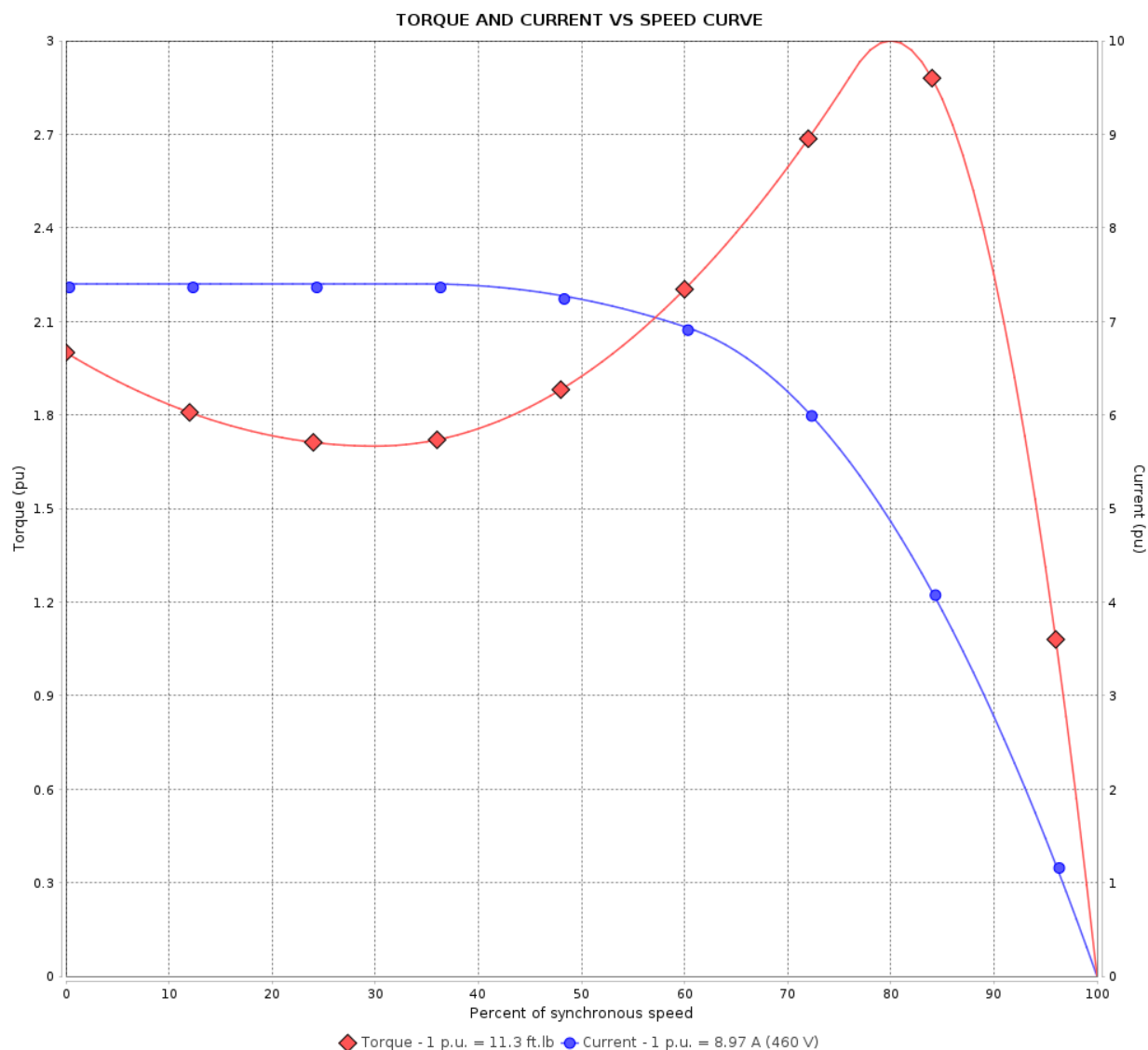


Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12751144

Catalog # : 007360T3E184T-S



Performance : 230/460 V 60 Hz 2P

Rated current : 17.9/8.97 A
LRC : 7.4
Rated torque : 11.3 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 300 %
Rated speed : 3500 rpm

Moment of inertia (J) : 0.1818 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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

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TORQUE AND CURRENT VS SPEED CURVE

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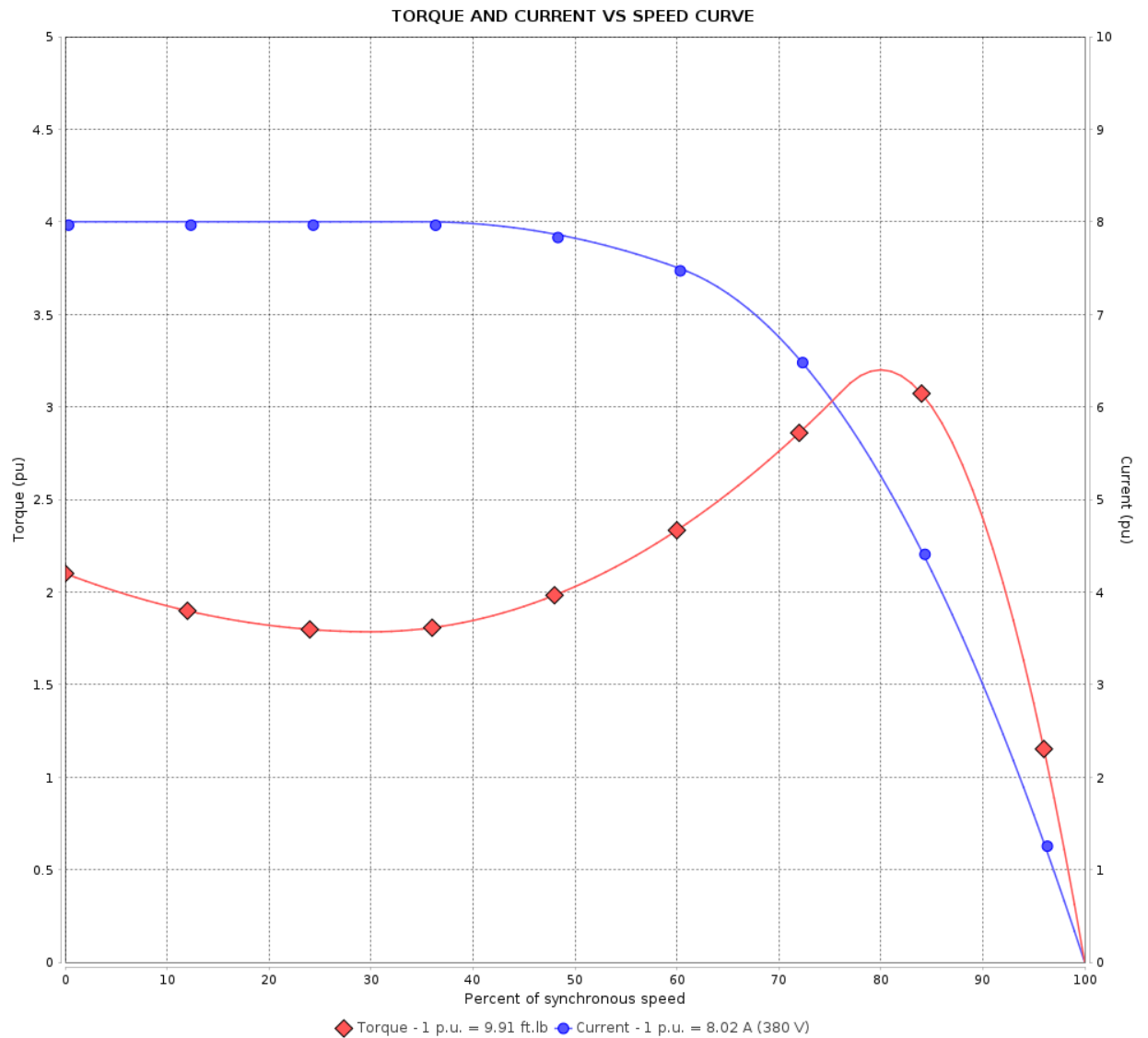


Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12751144

Catalog # : 00736OT3E184T-S



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

Rated current : 16.0-13.9/8.02 A
LRC : 8.0
Rated torque : 9.91 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 320 %
Rated speed : 2915 rpm

Moment of inertia (J) : 0.1818 sq.ft.lb
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Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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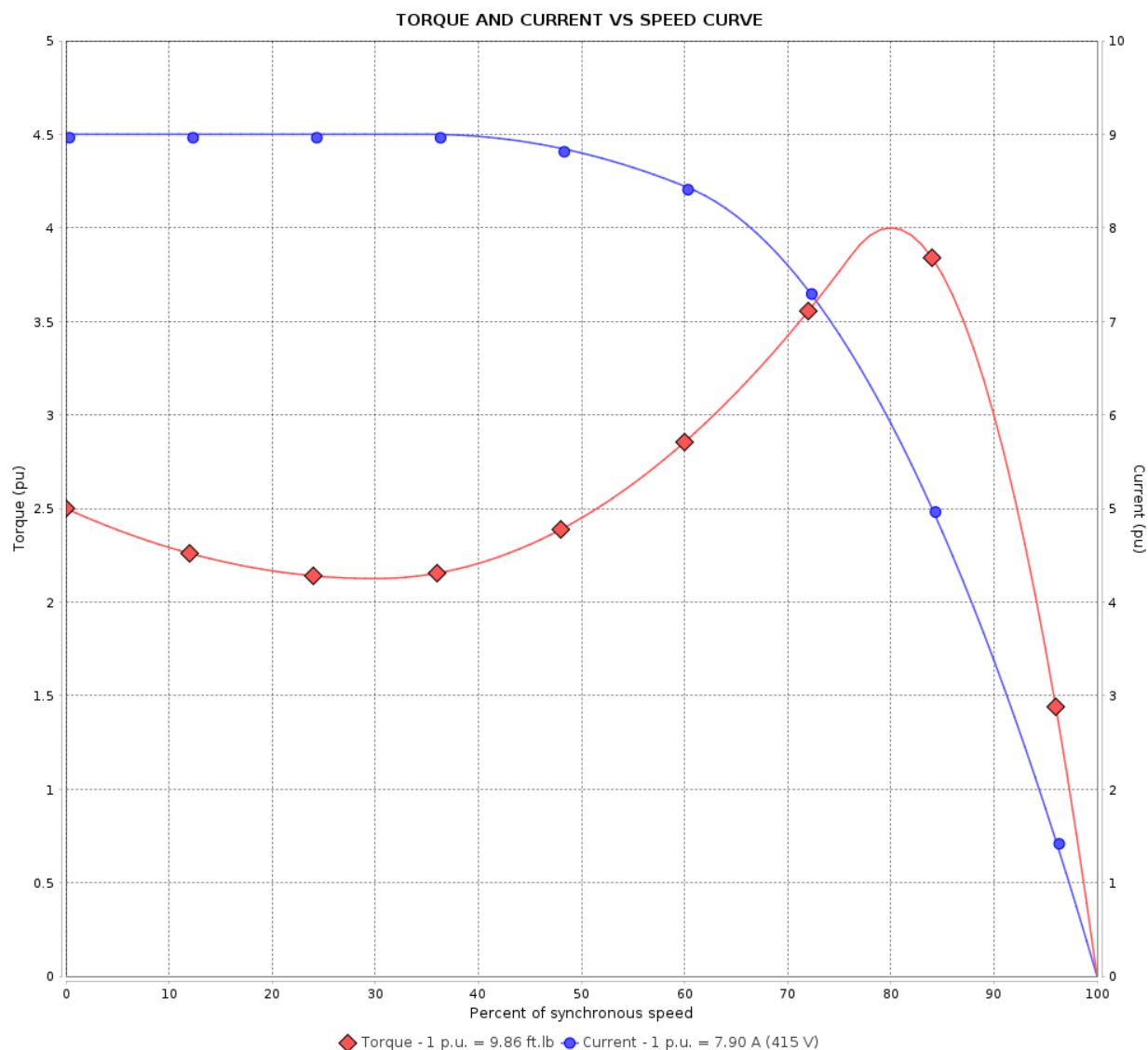


Customer :

Product line : Rolled Steel NEMA Premium
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Product code : 12751144

Catalog # : 00736OT3E184T-S



Performance : 415 V 50 Hz 2P

Rated current : 7.90 A
LRC : 9.0
Rated torque : 9.86 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 400 %
Rated speed : 2930 rpm

Moment of inertia (J) : 0.1818 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

Locked rotor time : 18s (cold) 10s (hot)

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LOAD PERFORMANCE CURVE

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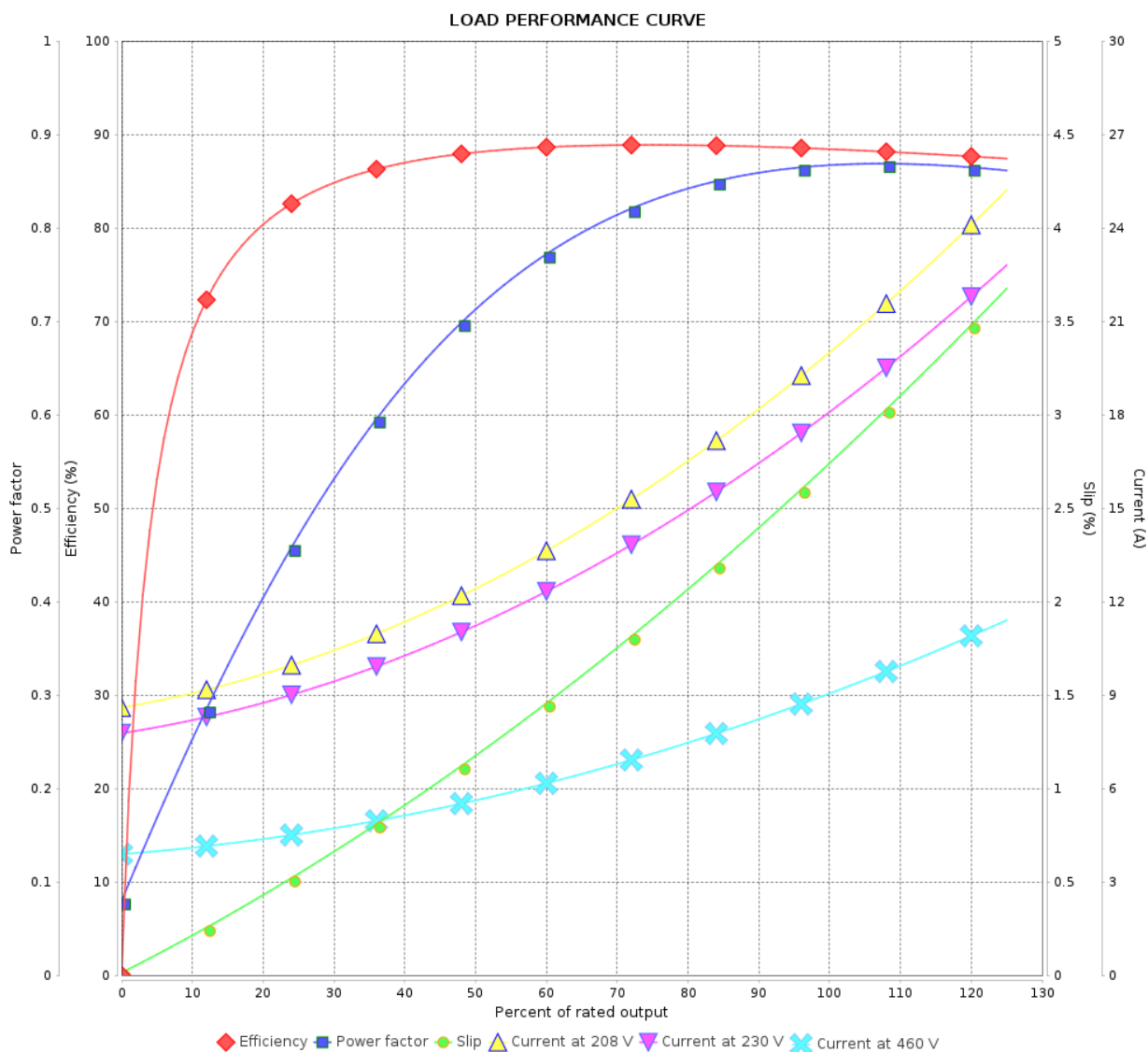


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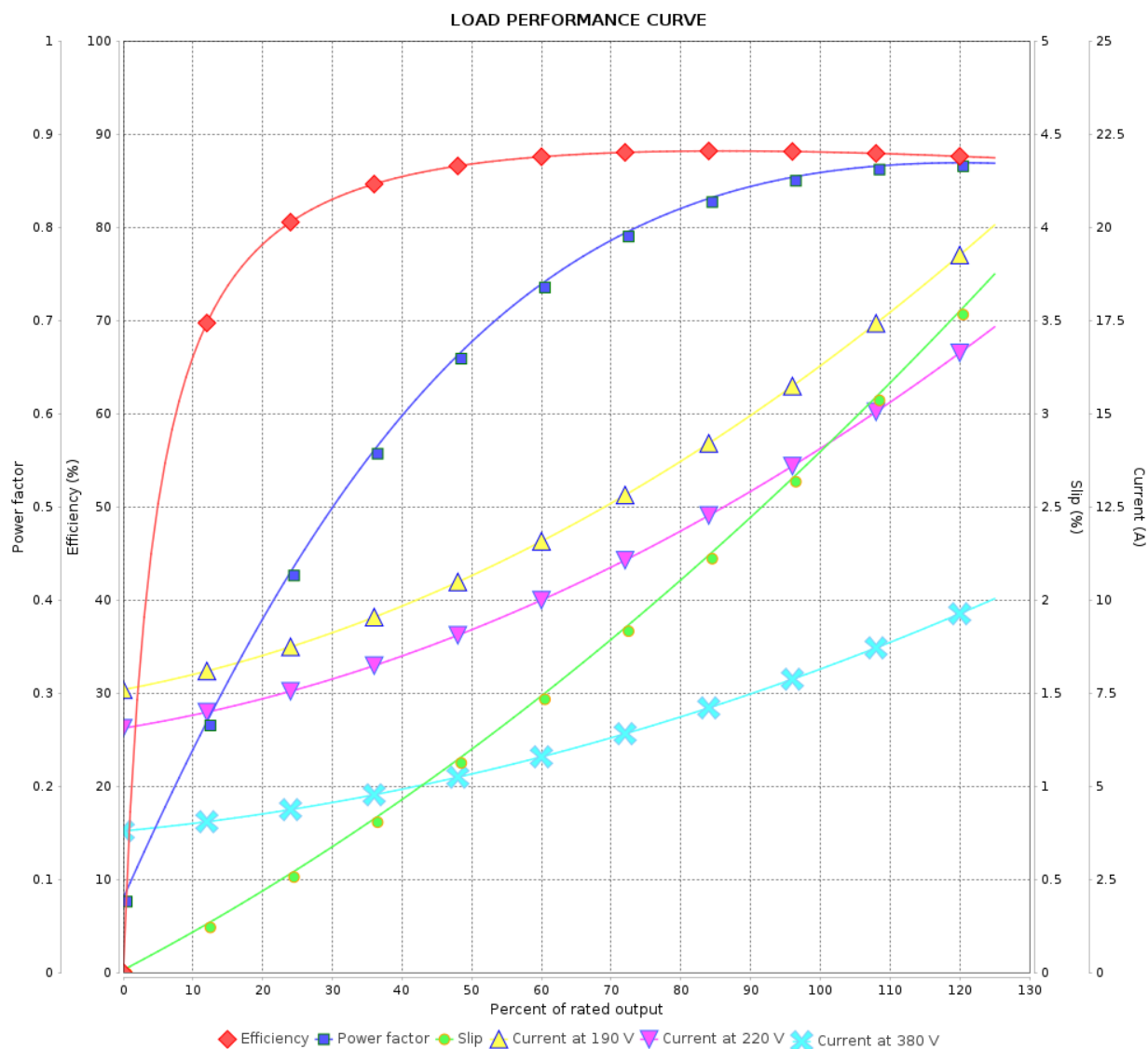


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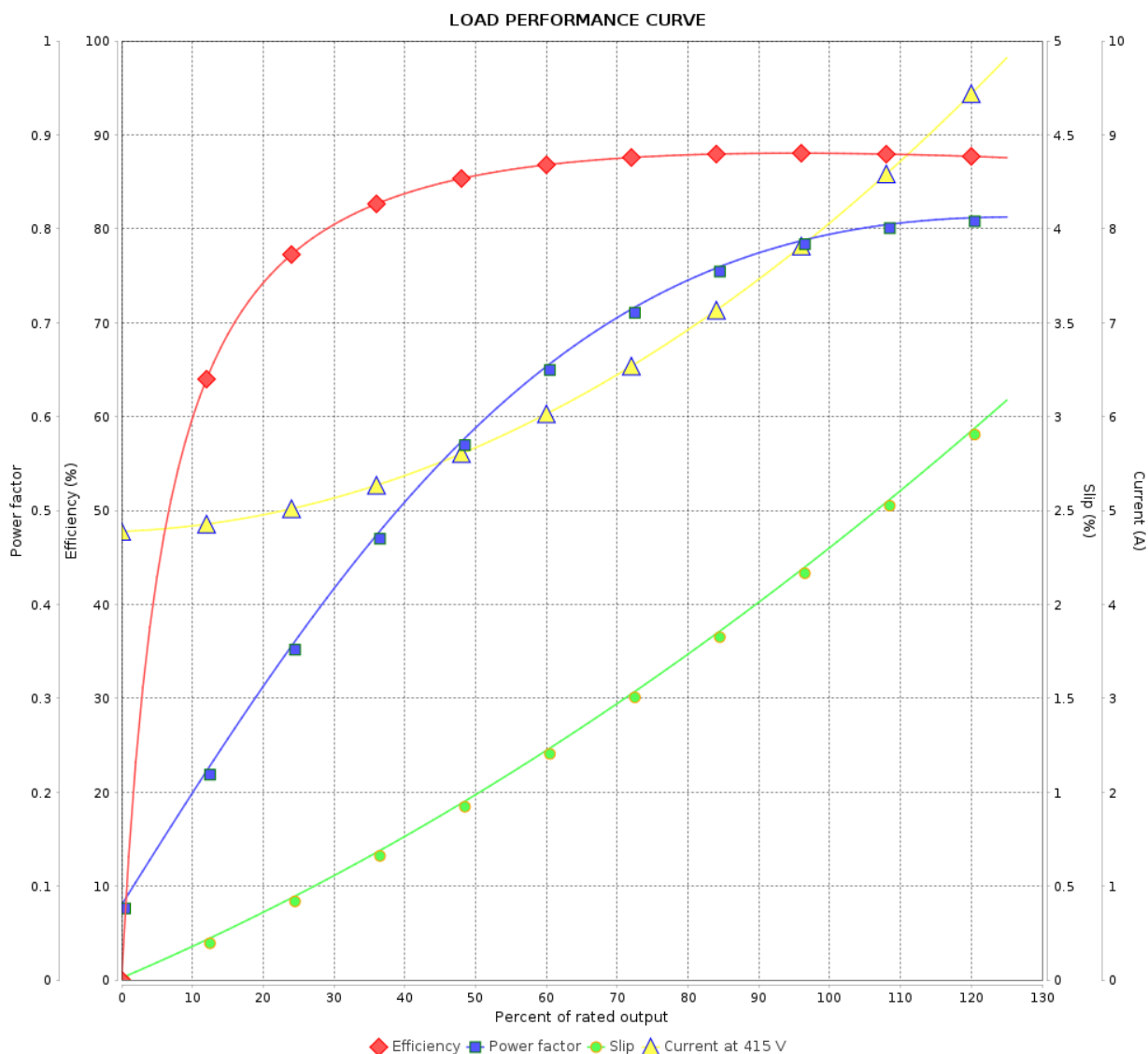


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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

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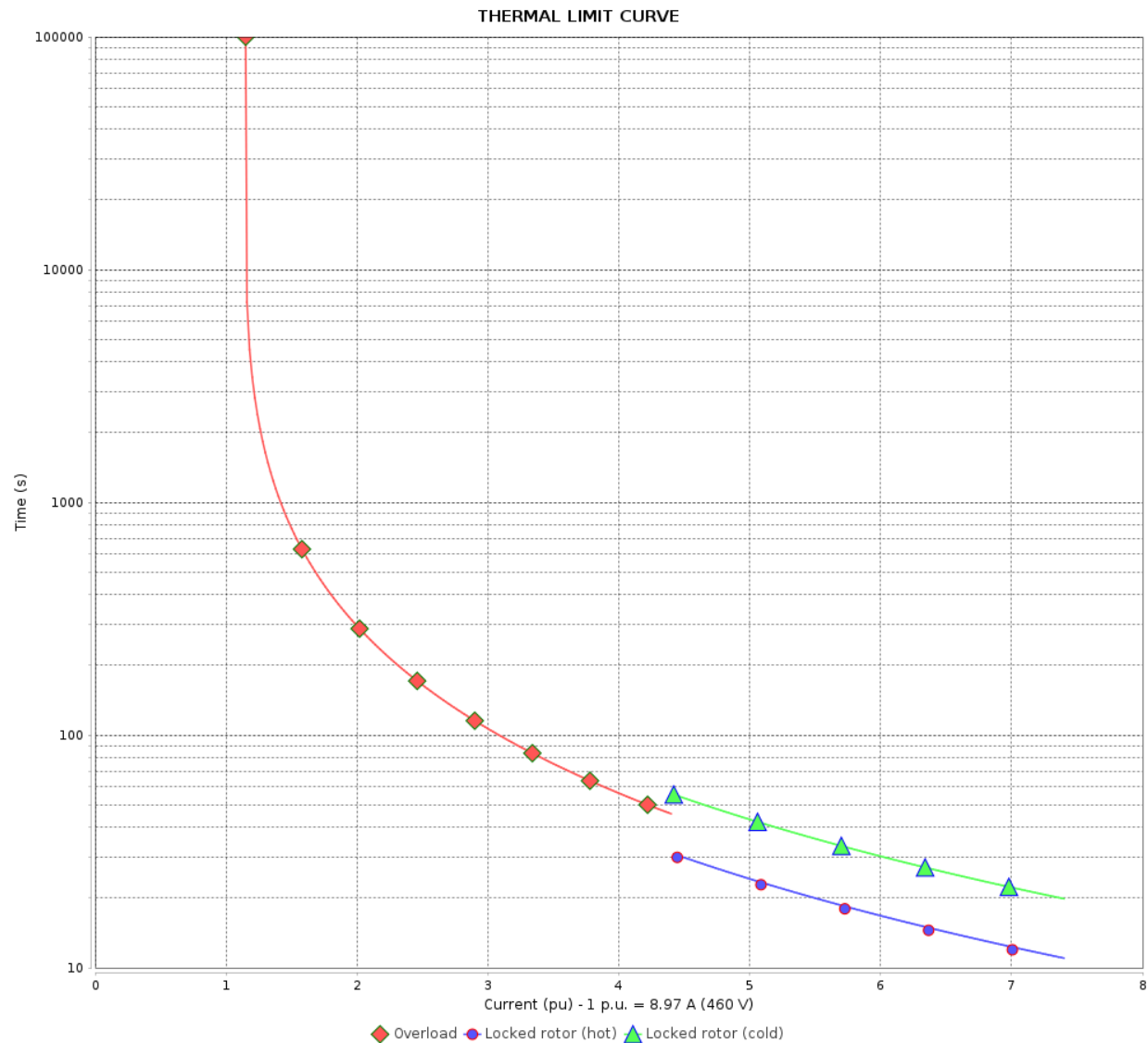
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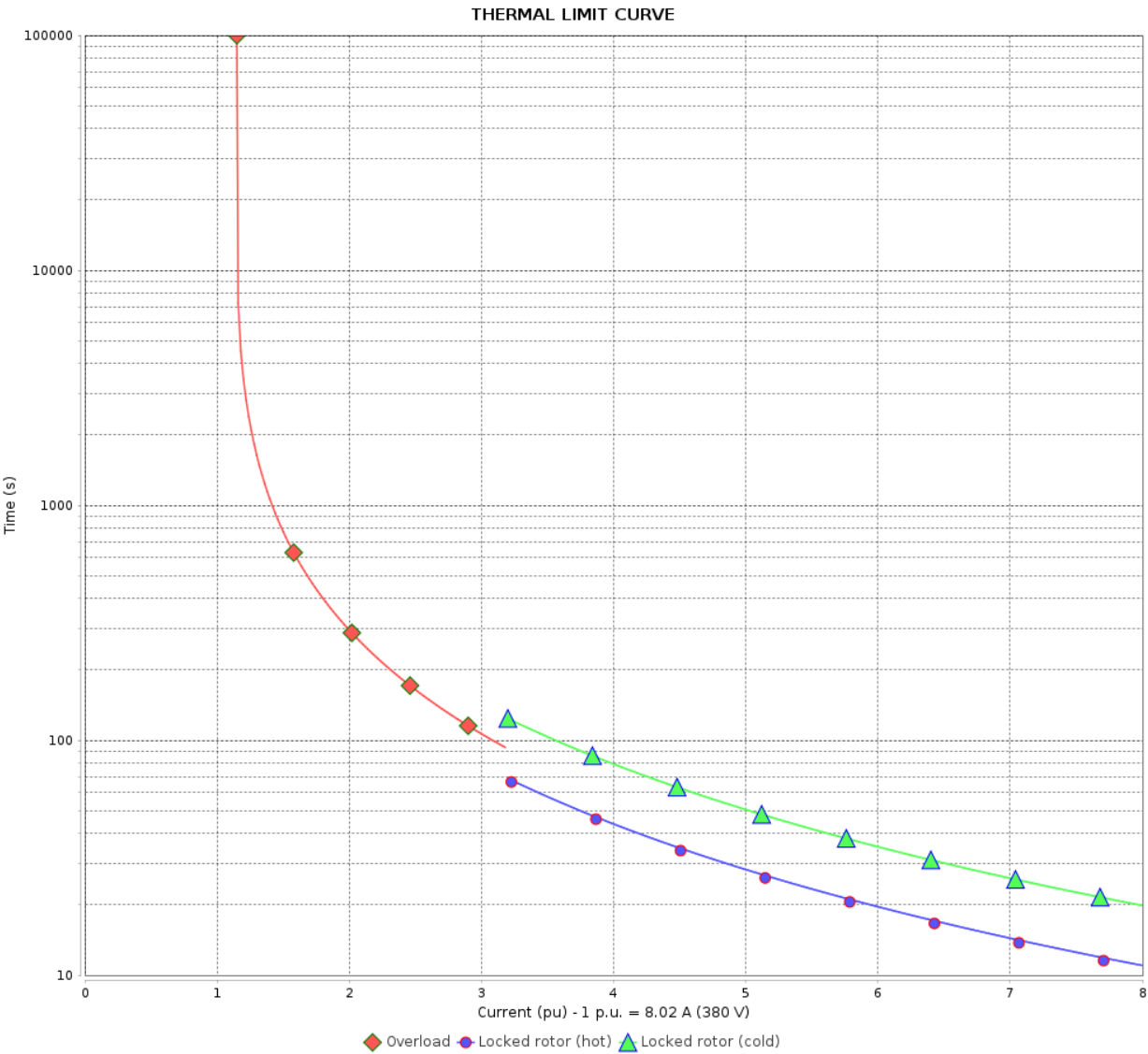
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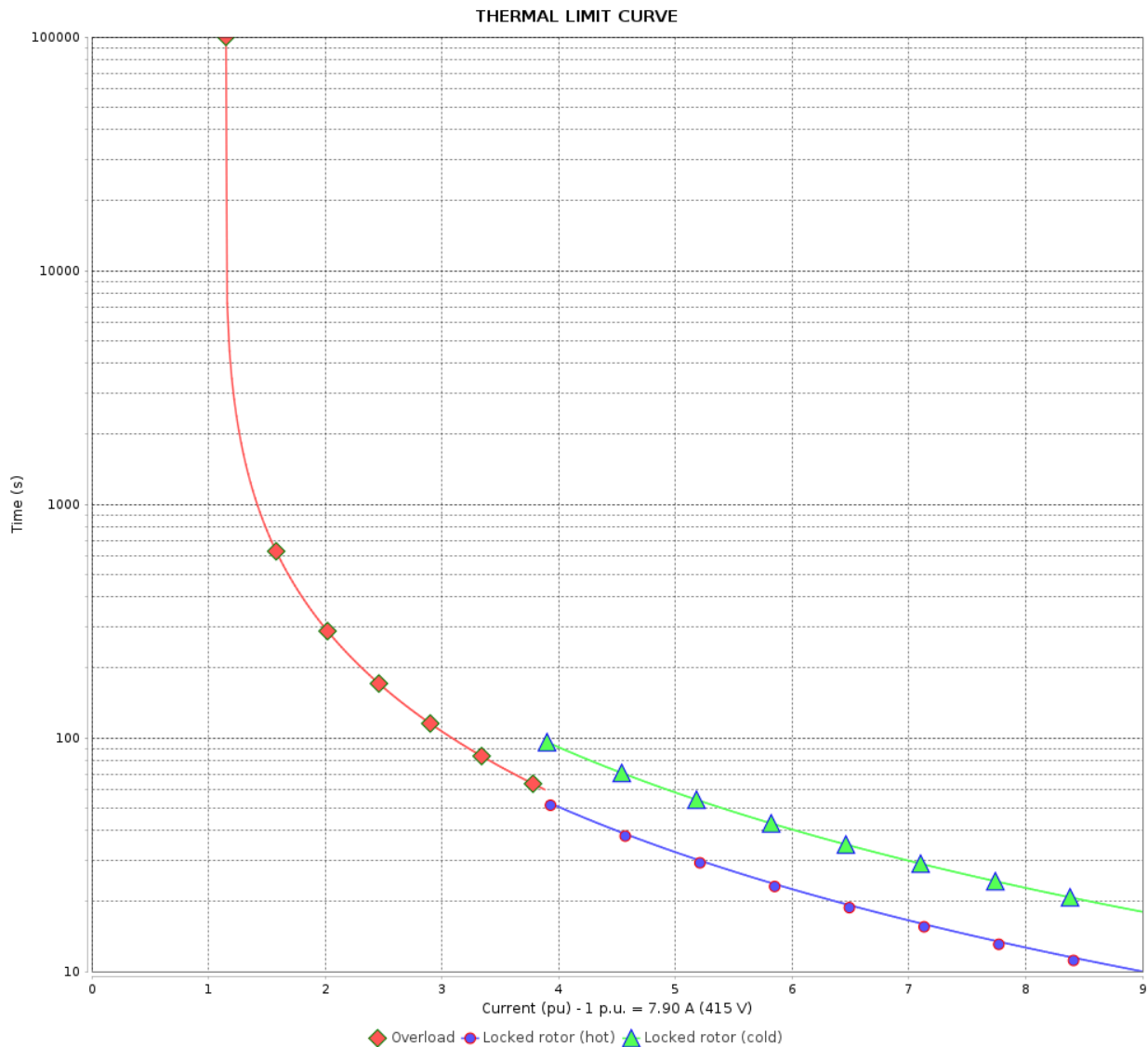
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VFD OPERATION CURVE

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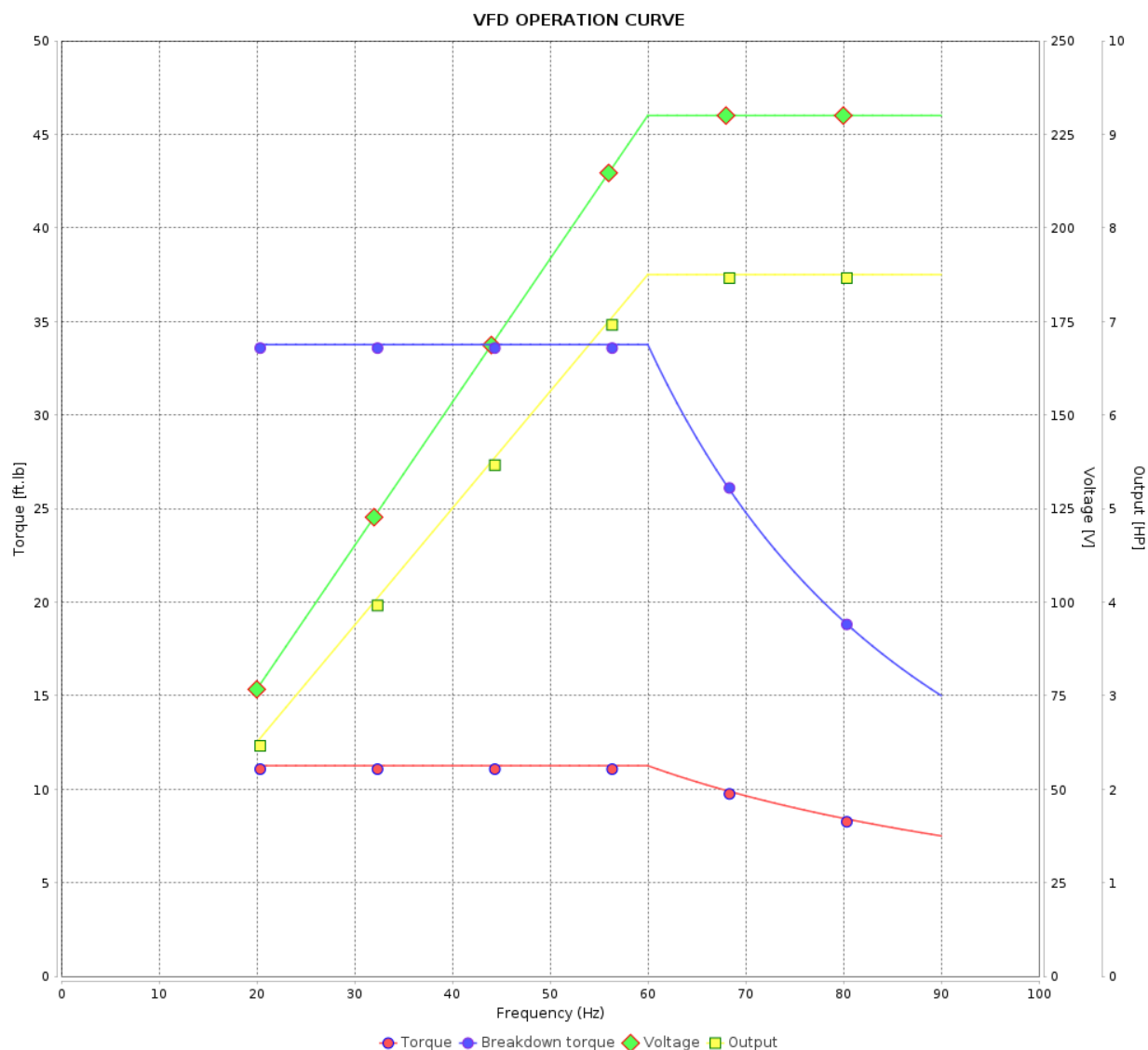


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