

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Jet Pump - J type Premium Efficiency Three-Phase Product code : 14804684

Frame	: 56HJ	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: CCW
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 21.8 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0070 kgm ²
Design	: B		

Output [HP]	3	2	2
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190-220/380	415
Rated current [A]	7.34/3.67	6.30-5.44/3.15	3.02
L. R. Amperes [A]	68.3/34.1	57.3-49.5/28.7	31.1
LRC [A]	9.3x(Code L)	9.1x(Code L)	10.3x(Code M)
No load current [A]	3.20/1.60	2.58-2.23/1.29	1.50
Rated speed [RPM]	3505	2928	2940
Slip [%]	2.64	2.40	2.00
Rated torque [kgfm]	1	0	0
Locked rotor torque [%]	280	400	490
Breakdown torque [%]	380	459	560
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	18s (cold) 10s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%		
	50%	81.0	79.6
	75%	84.0	83.5
	100%	86.5	84.2
Power Factor	25%		
	50%	0.71	0.60
	75%	0.82	0.74
	100%	0.87	0.82

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

Losses (%)	P1 (0,9;1,0)	17.1	20.6	20.6
	P2 (0,5;1,0)	14.2	17.1	17.2
	P3 (0,25;1,0)	13.1	15.8	15.8
	P4 (0,9;0,5)	8.7	10.5	10.6
	P5 (0,5;0,5)	5.3	6.4	6.5
	P6 (0,5;0,25)	3.5	4.2	4.2
	P7 (0,25;0,25)	2.2	2.7	2.7

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6203 2RS	6202 2RS	Max. traction	: 78 kgf
Sealing	: V'Ring	Without Bearing Seal	Max. compression	: 99 kgf
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			

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).

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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Notes
USABLE @208V 7.76A SF 1.00 SFA 7.76A

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TORQUE AND CURRENT VS SPEED CURVE

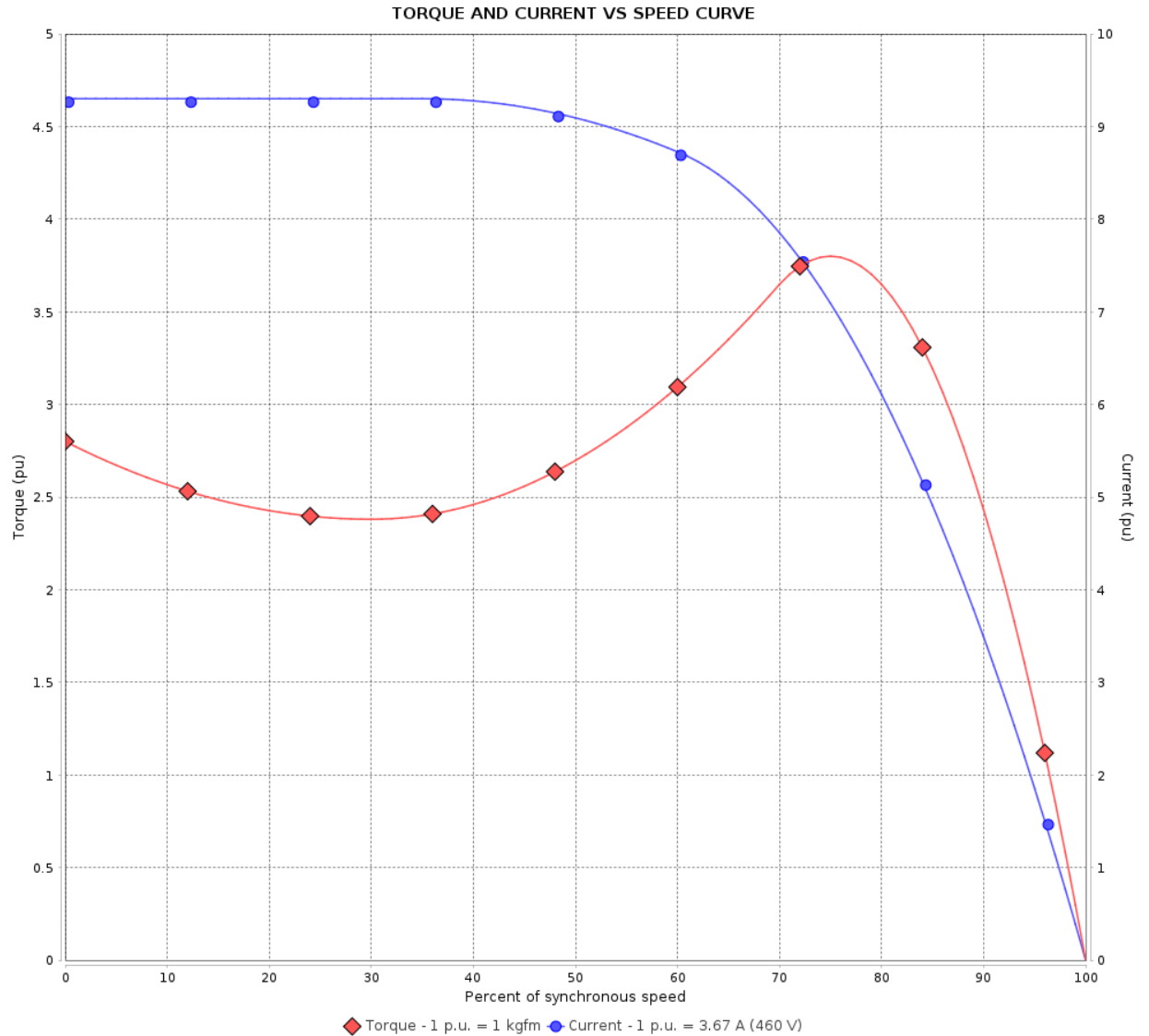
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Customer :

Product line : Rolled Steel Jet Pump - J type
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Performance : 230/460 V 60 Hz 2P

Rated current : 7.34/3.67 A
LRC : 9.3
Rated torque : 1 kgfm
Locked rotor torque : 280 %
Breakdown torque : 380 %
Rated speed : 3505 rpm

Moment of inertia (J) : 0.0070 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor :
Temperature rise : 80 K
Design : B

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

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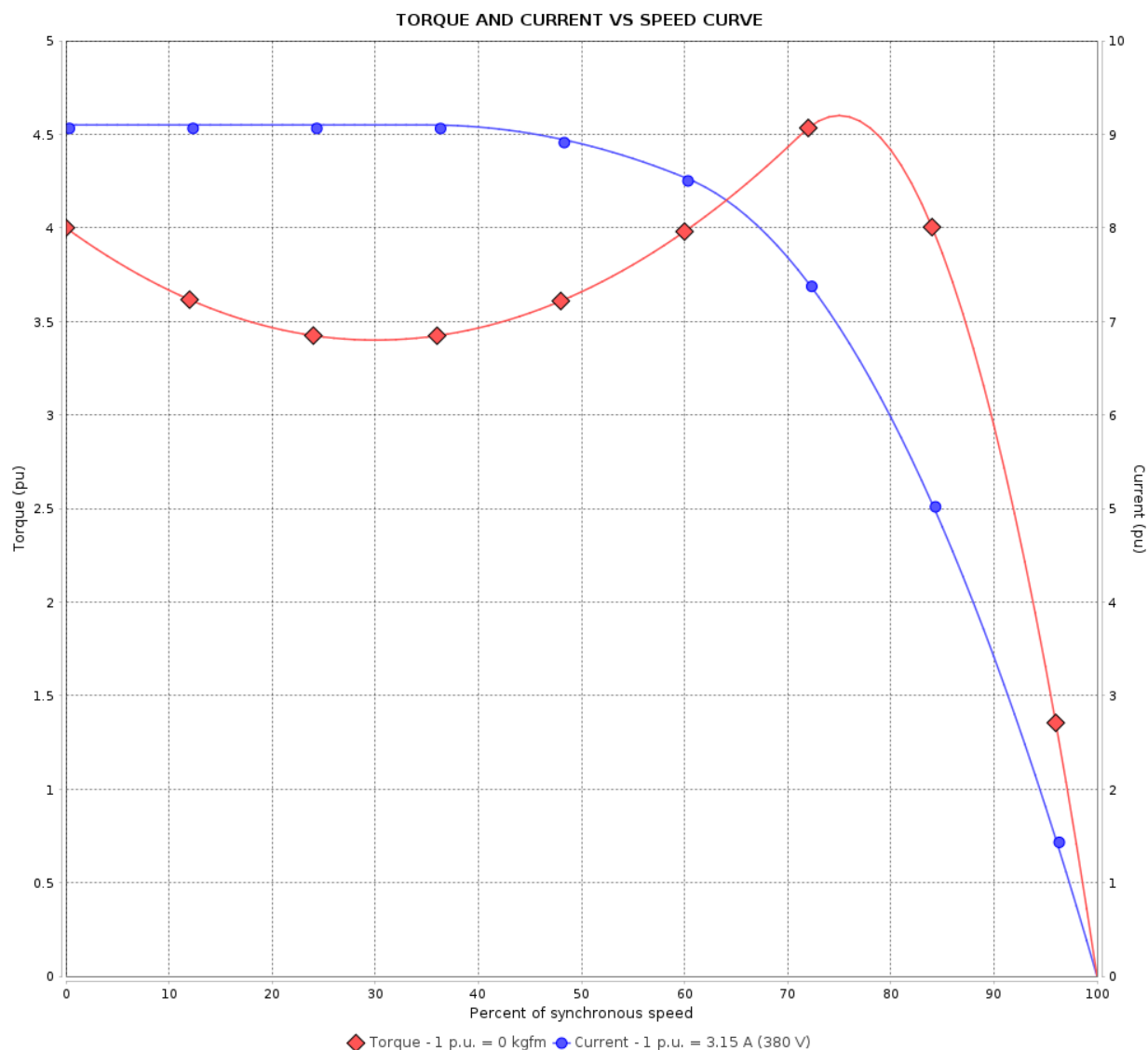
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Customer :

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

Rated current : 6.30-5.44/3.15 A
LRC : 9.1
Rated torque : 0 kgfm
Locked rotor torque : 400 %
Breakdown torque : 459 %
Rated speed : 2928 rpm

Moment of inertia (J) : 0.0070 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Locked rotor time : 16s (cold) 9s (hot)

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LOAD PERFORMANCE CURVE

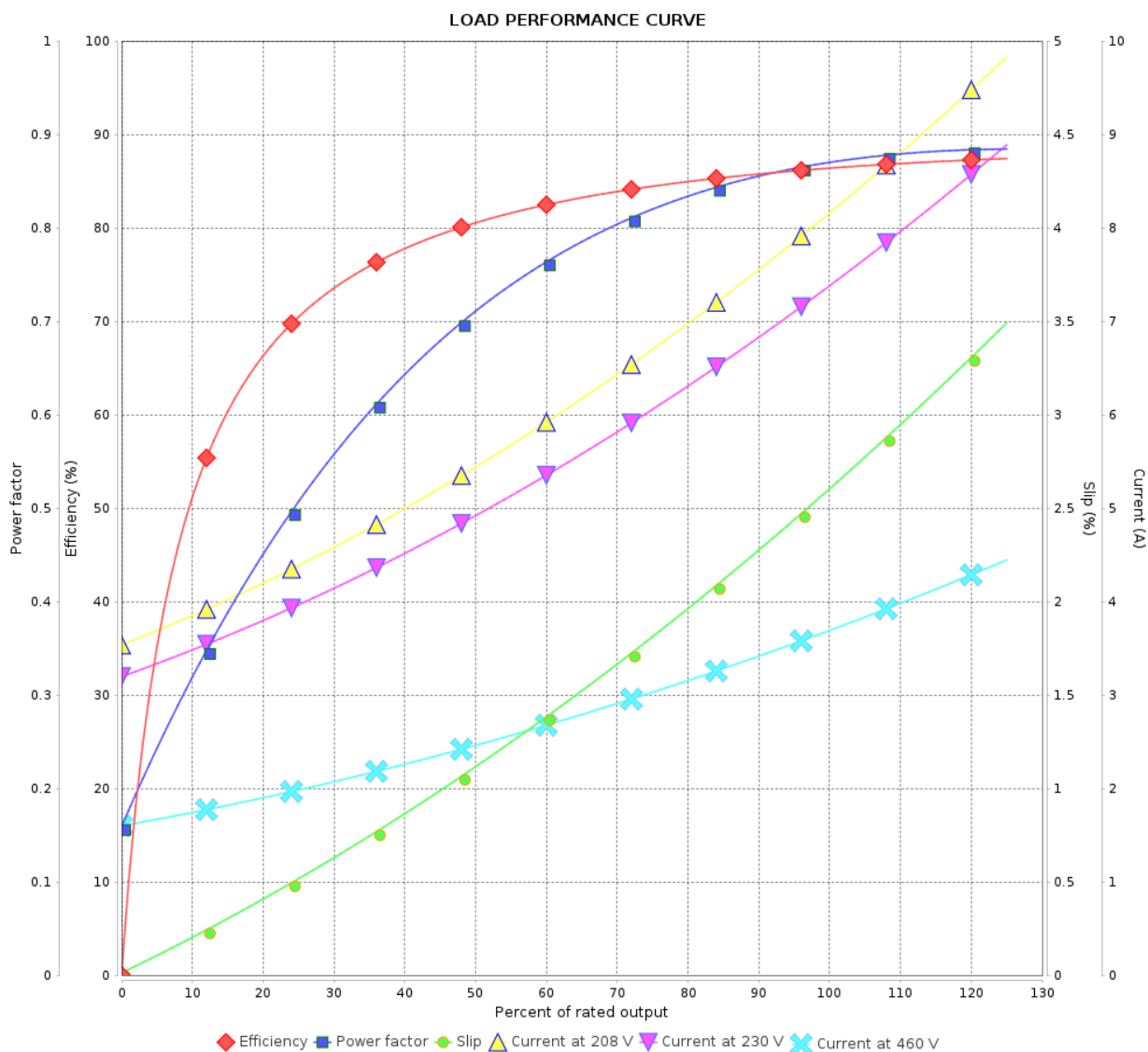
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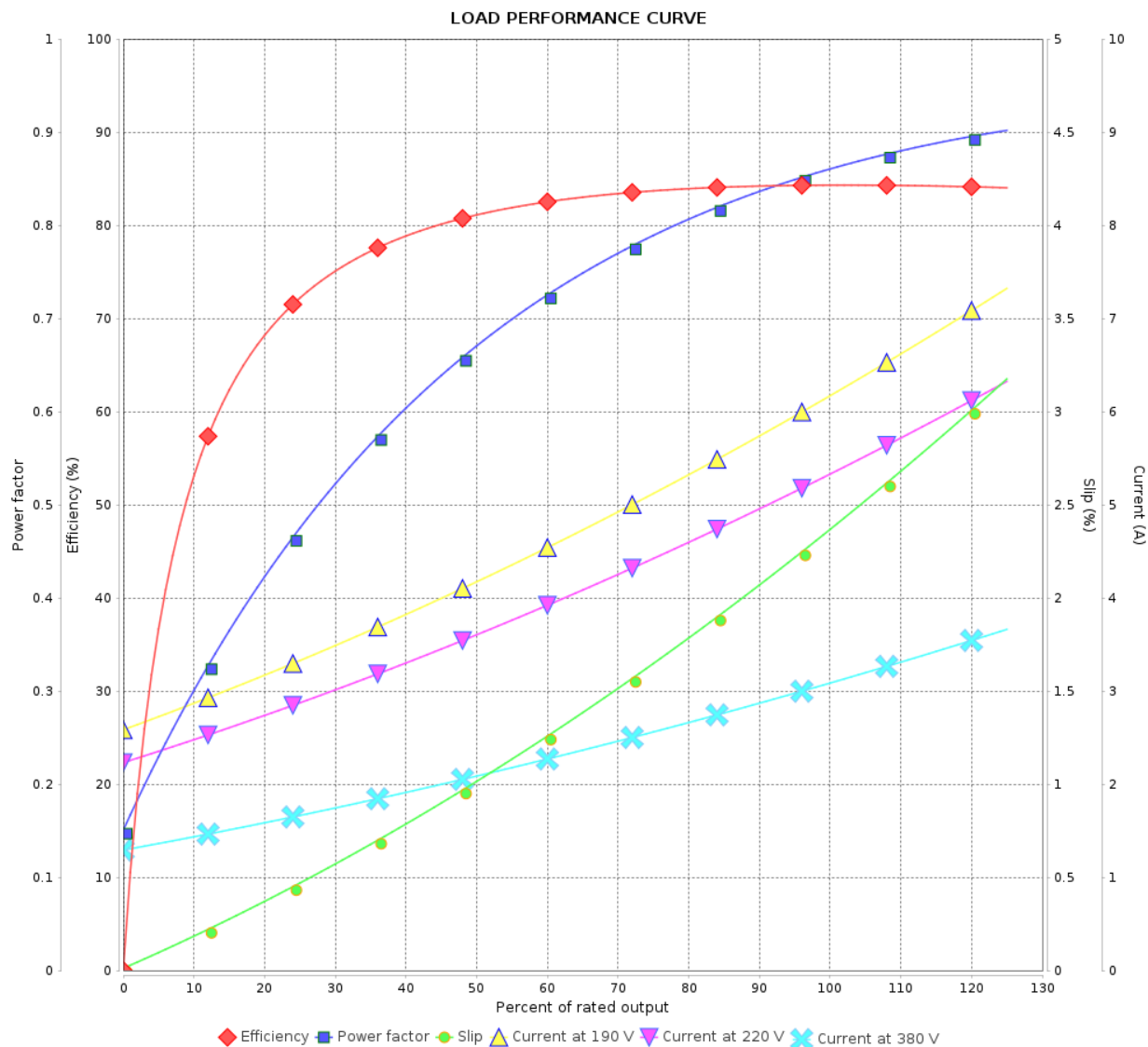
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THERMAL LIMIT CURVE

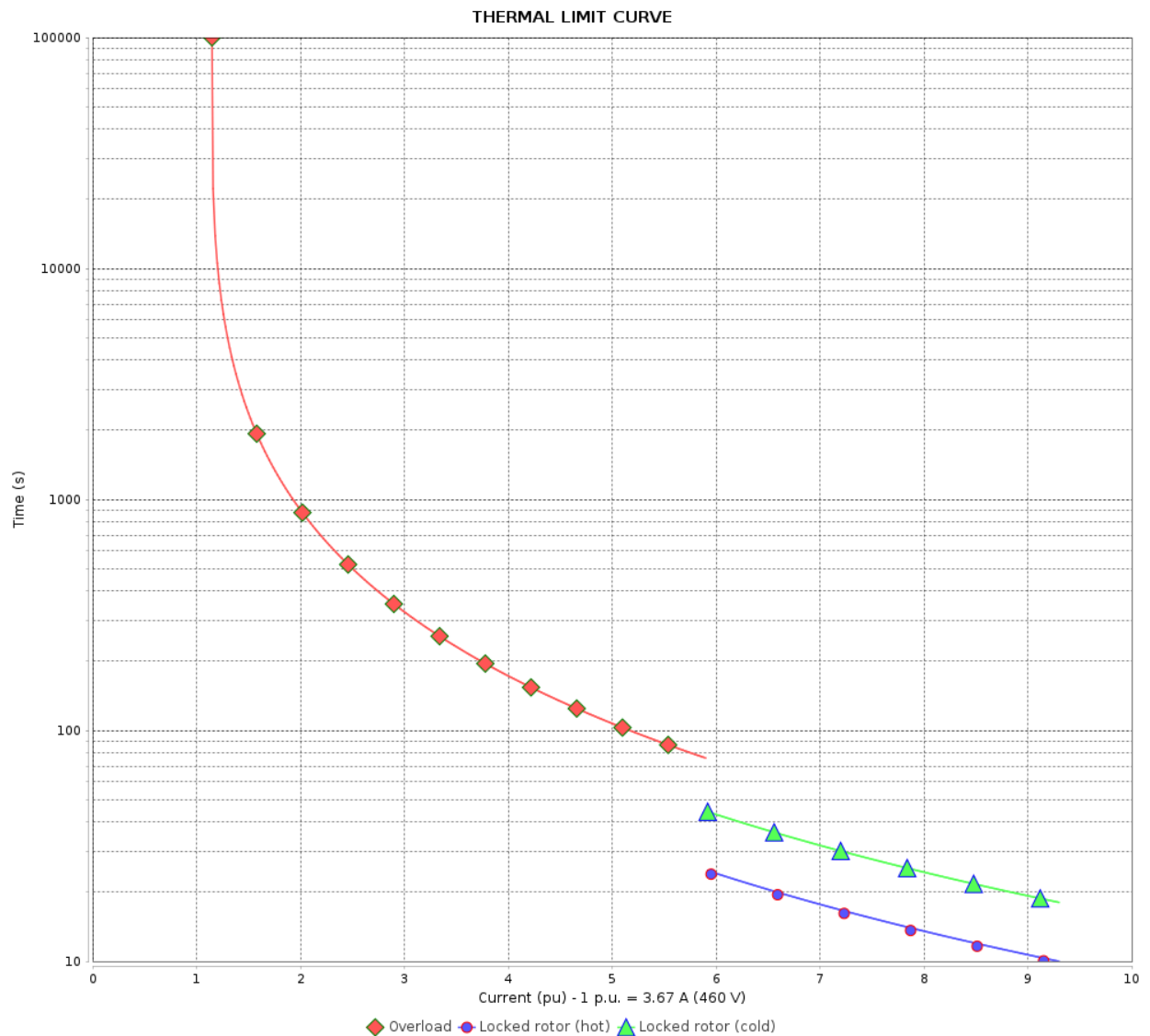
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Heating constant

Cooling constant

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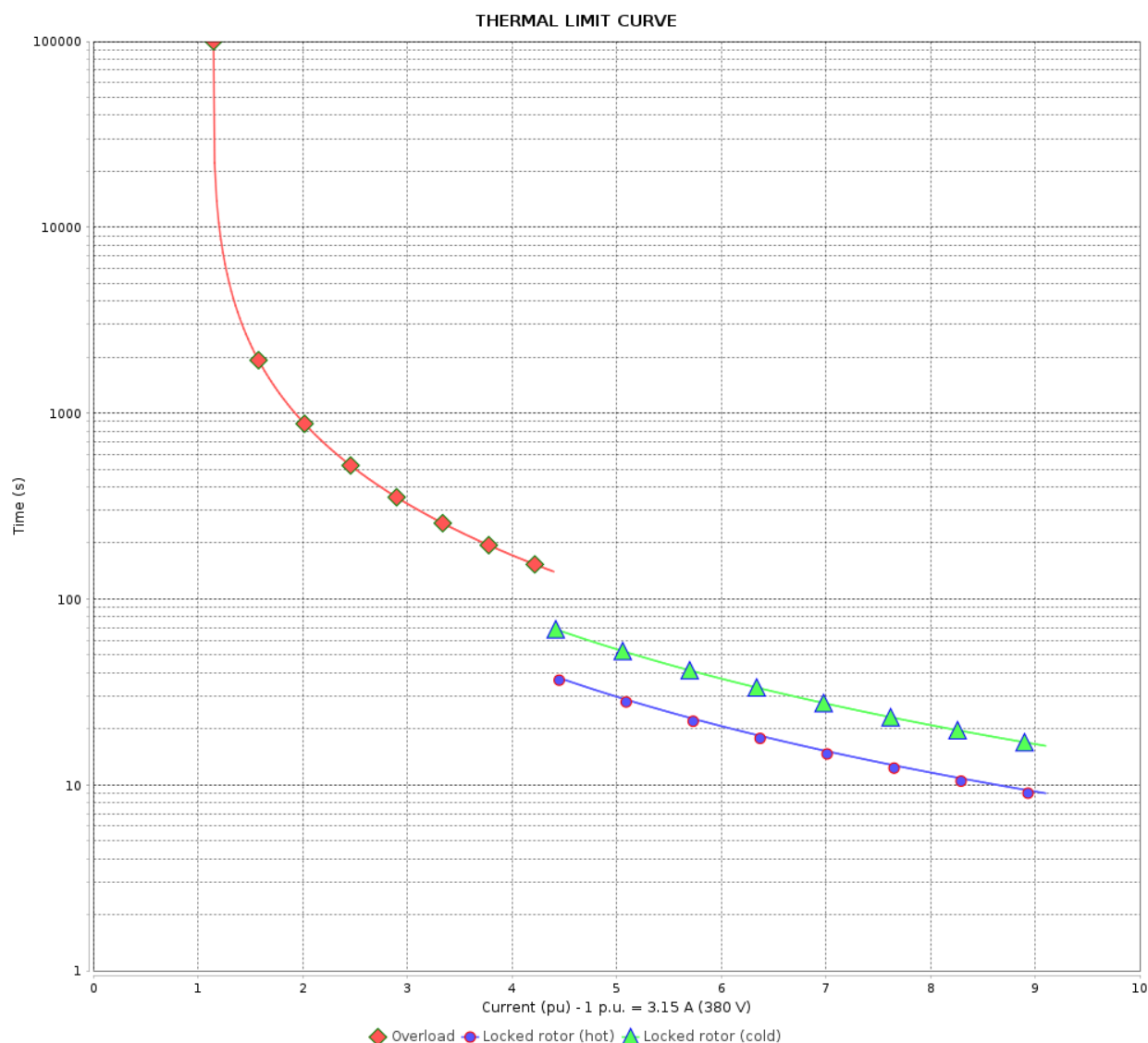
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VFD OPERATION CURVE

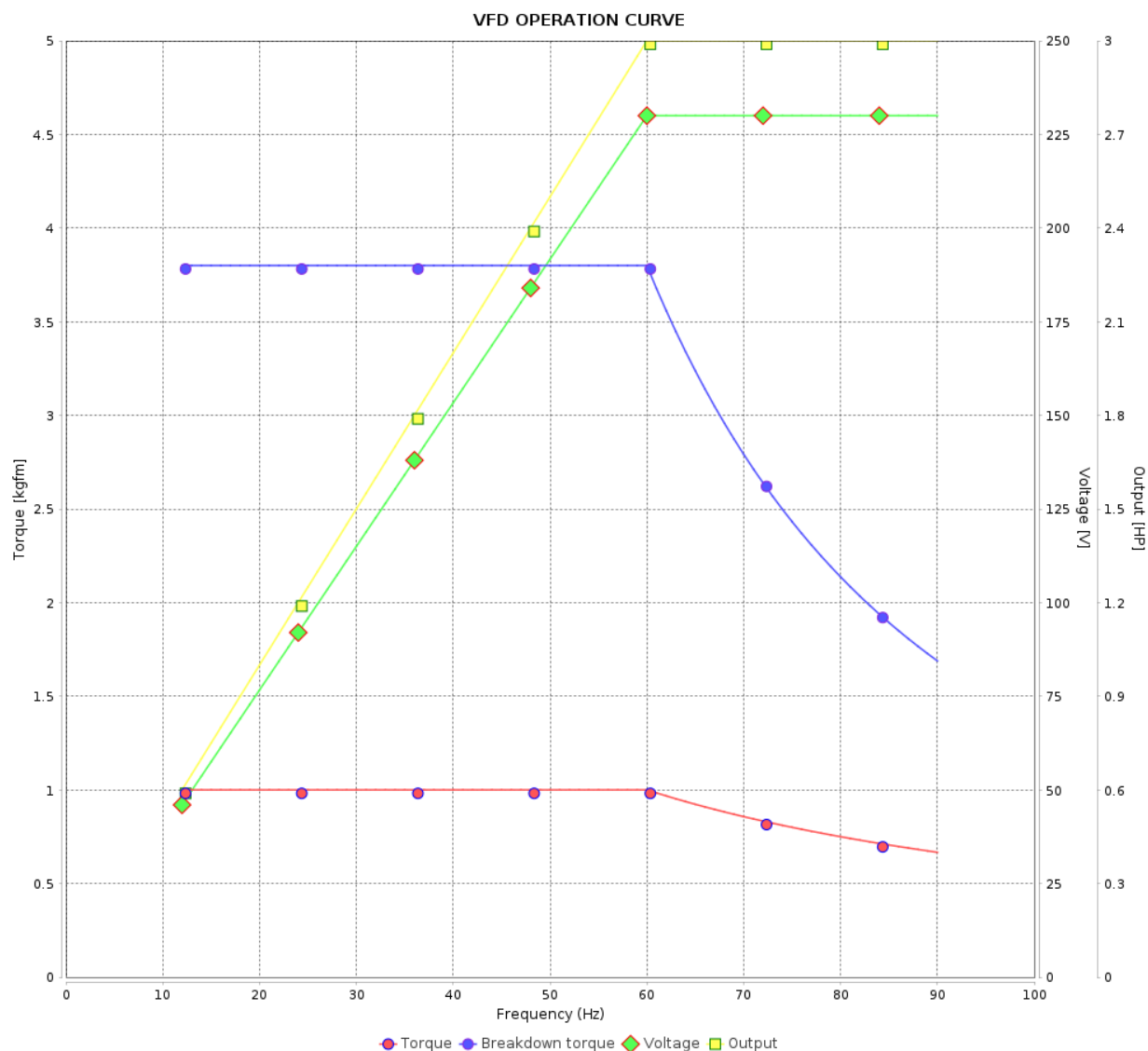
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