

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12845475

Catalog # : CT010502NPW01

Frame : 213/5TC
Output : 10 HP (7.5 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 9.49 A
L. R. Amperes : 71.2 A
LRC : 7.5x(Code H)
No load current : 3.44 A
Rated speed : 3530 rpm
Slip : 1.94 %
Rated torque : 14.9 ft.lb
Locked rotor torque : 260 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.7188 sq.ft.lb
Design : B

Locked rotor time : 28s (cold) 16s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 70.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 161 lb

Output	50%	75%	100%
Efficiency (%)	89.5	90.2	90.2
Power Factor	0.75	0.84	0.88

Foundation loads
Max. traction : 181 lb
Max. compression : 322 lb

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
9.6	7.7	7.5	5.4	3.4	2.5	1.7

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

Notes

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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 6 Revision		
Checked by				
Date	10/07/2026			

TORQUE AND CURRENT VS SPEED CURVE

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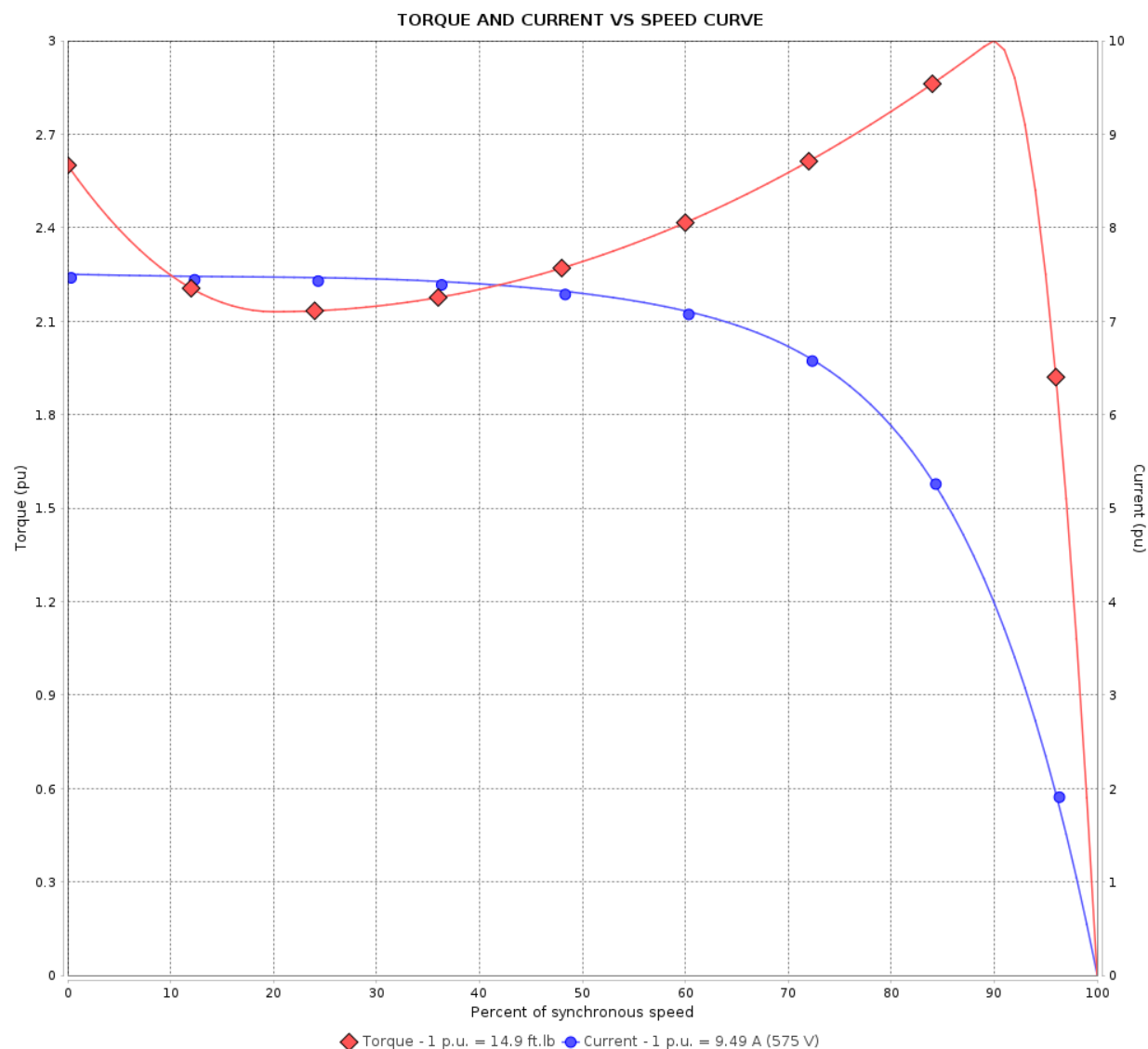


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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 6 Revision		
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LOAD PERFORMANCE CURVE

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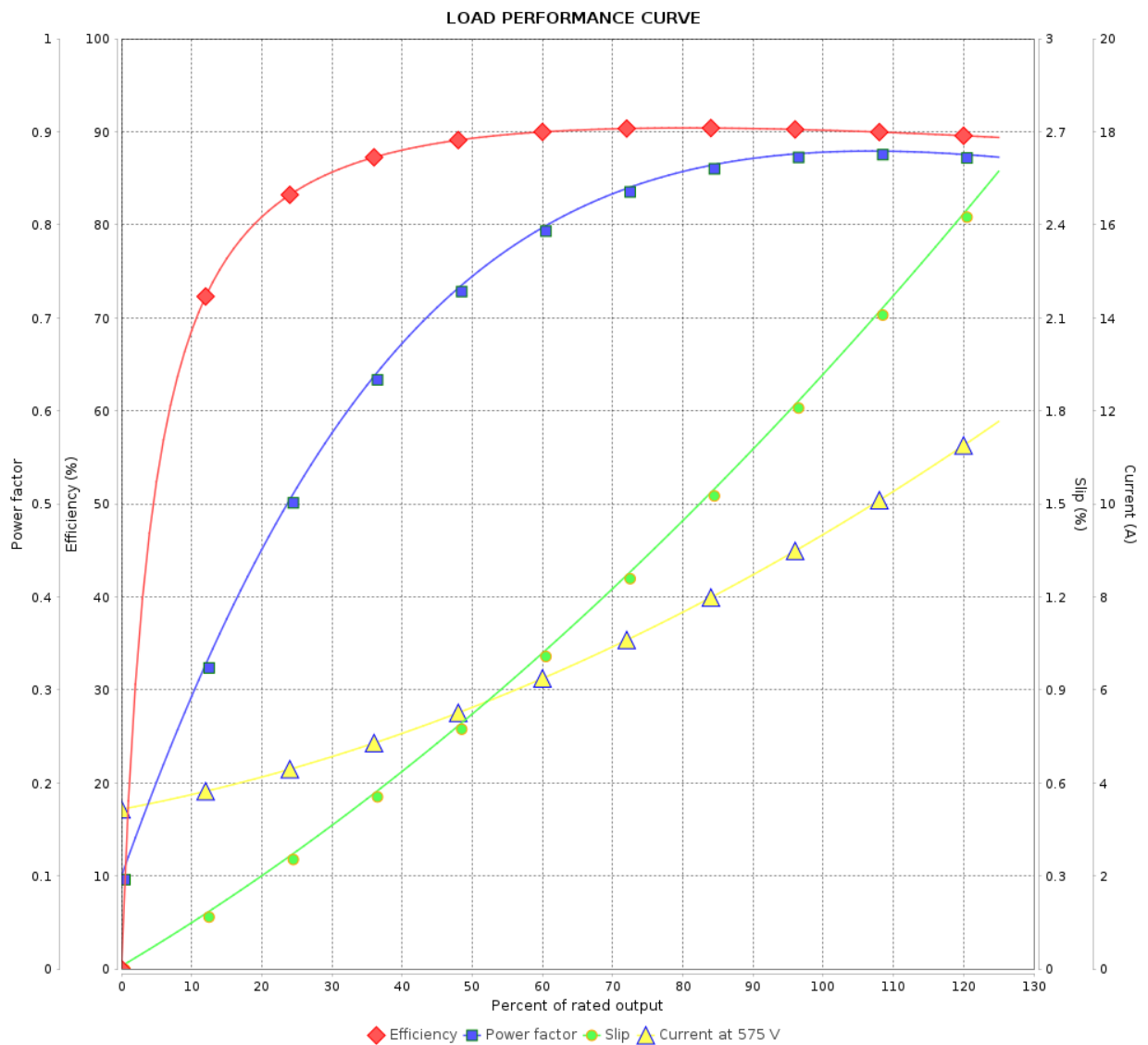


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Rev.	Changes Summary	Performed	Checked	Date
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Page 3 / 6
Revision

THERMAL LIMIT CURVE

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Heating constant

Cooling constant

Rev.

Changes Summary

Performed

Checked

Date

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10/07/2026

Page

4 / 6

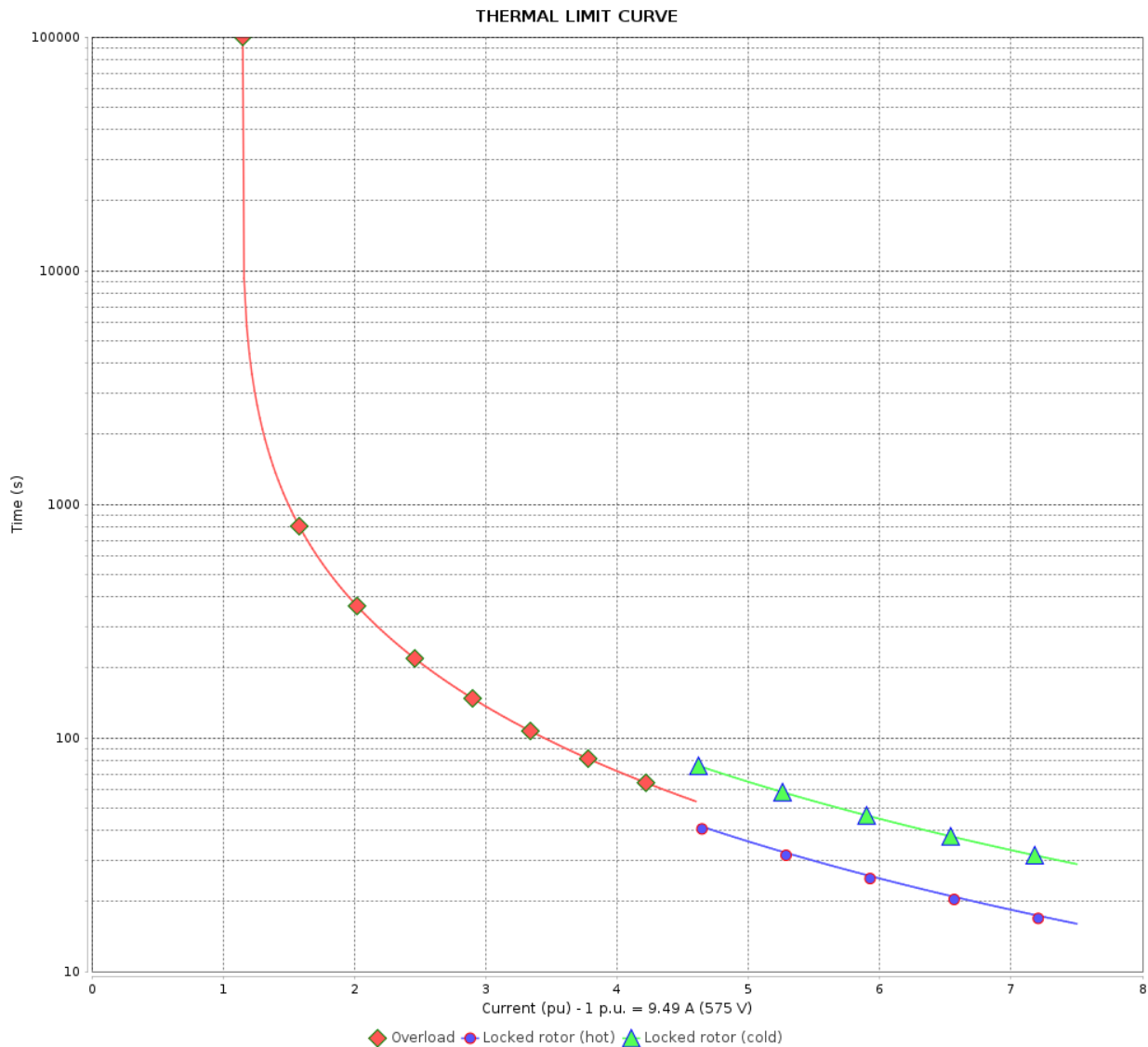
Revision

THERMAL LIMIT CURVE

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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	10/07/2026				
				Page 5 / 6	Revision

VFD OPERATION CURVE

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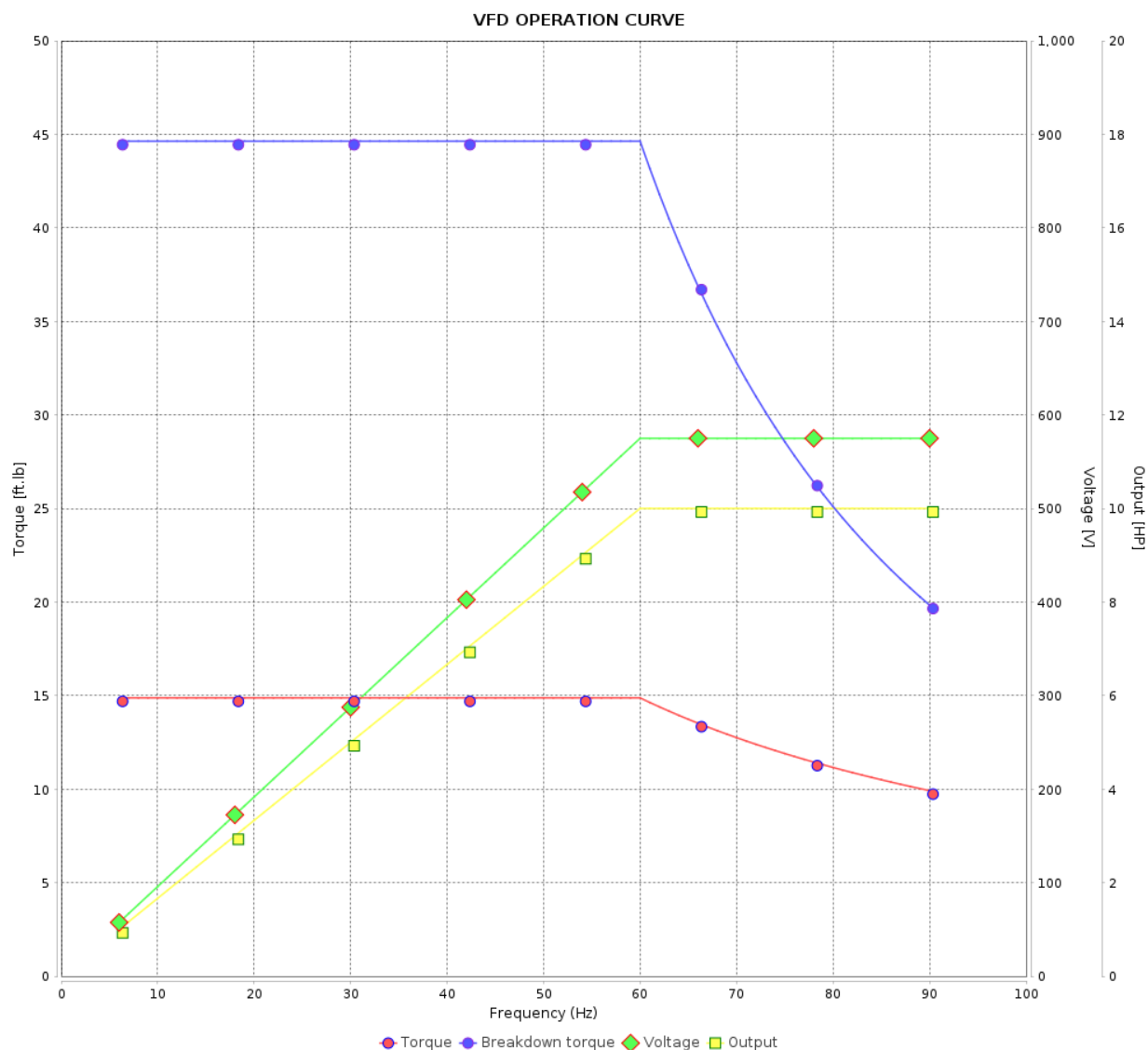


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Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				6 / 6	
Date					

