

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12446945
Catalog # : CT015404NPW22

Frame	: 254/6TC	Locked rotor time	: 37s (cold) 21s (hot)
Output	: 15 HP (11 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 36.0/18.0 A	Protection degree	: IP55
L. R. Amperes	: 230/115 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 14.6/7.30 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1770 rpm	Noise level ²	: 64.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 44.5 ft.lb	Approx. weight ³	: 251 lb
Locked rotor torque	: 229 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 2.62 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	91.0	91.7	92.4	Max. traction	: 452 lb
Power Factor	0.00	0.68	0.78	0.83	Max. compression	: 734 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)
8.1	7.0	6.5	3.9	2.8	1.8	1.3

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 g
Lubricant type	:	Mobil Polyrex EM	

Notes

USABLE @208V 39.8A SF 1.15 SFA 45.8A

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 Revision 1 / 6		
Checked by				
Date	10/07/2026			

TORQUE AND CURRENT VS SPEED CURVE

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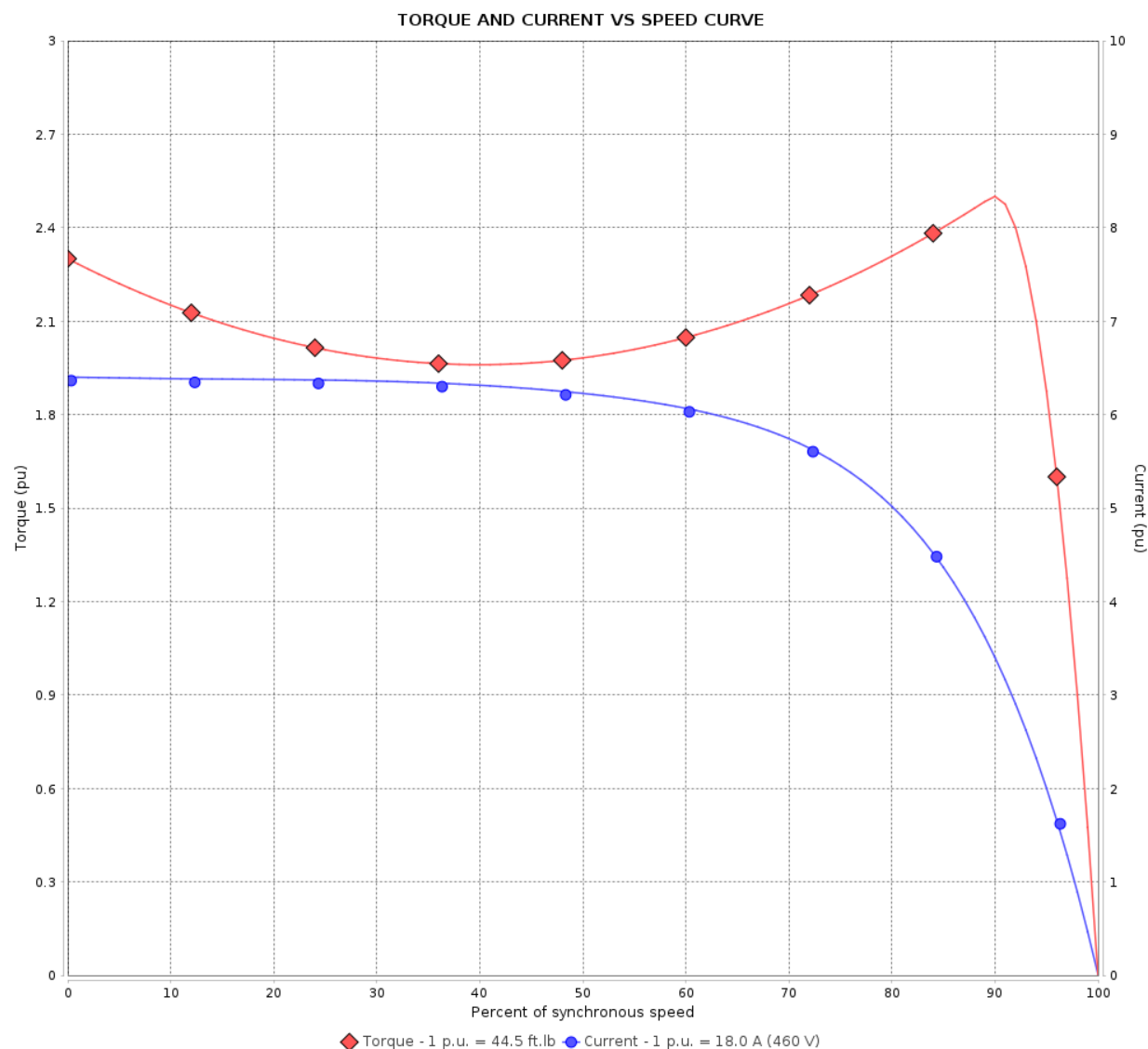


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Breakdown torque : 250 %
Rated speed : 1770 rpm

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

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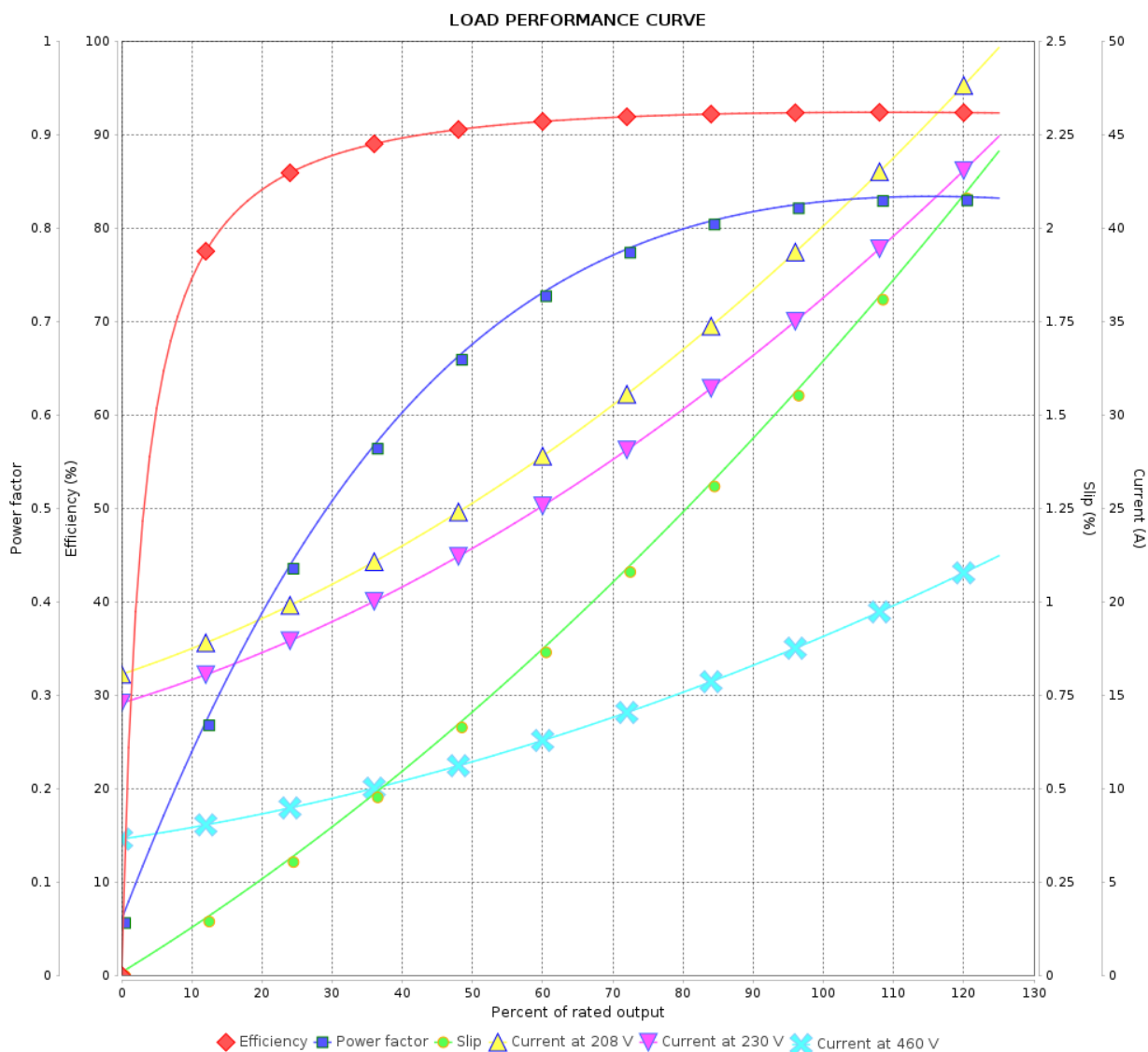


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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 6Revision		
Checked by				
Date	10/07/2026			

THERMAL LIMIT CURVE

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Heating constant

Cooling constant

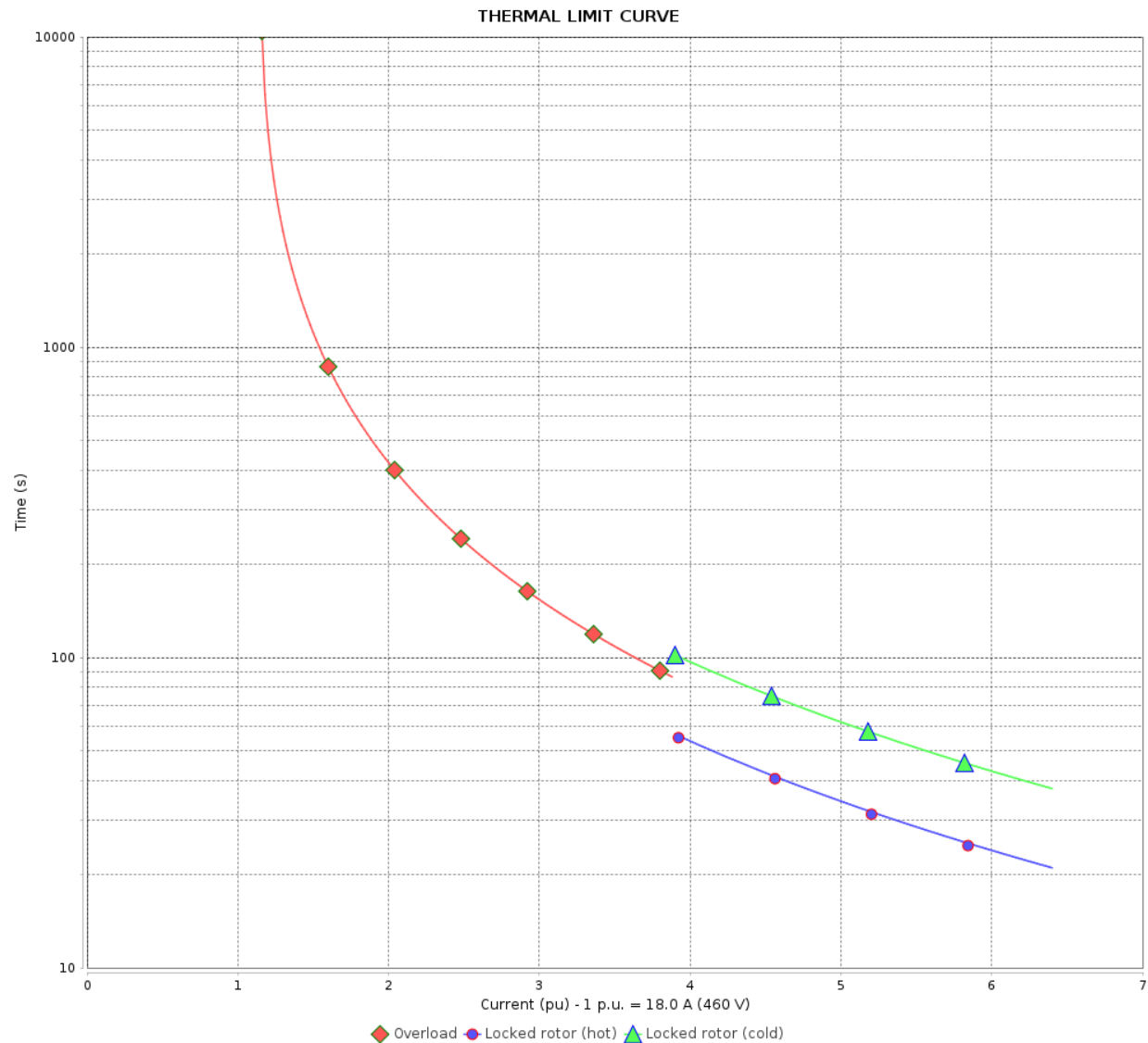
Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page 4 / 6		Revision
Checked by					
Date	10/07/2026				

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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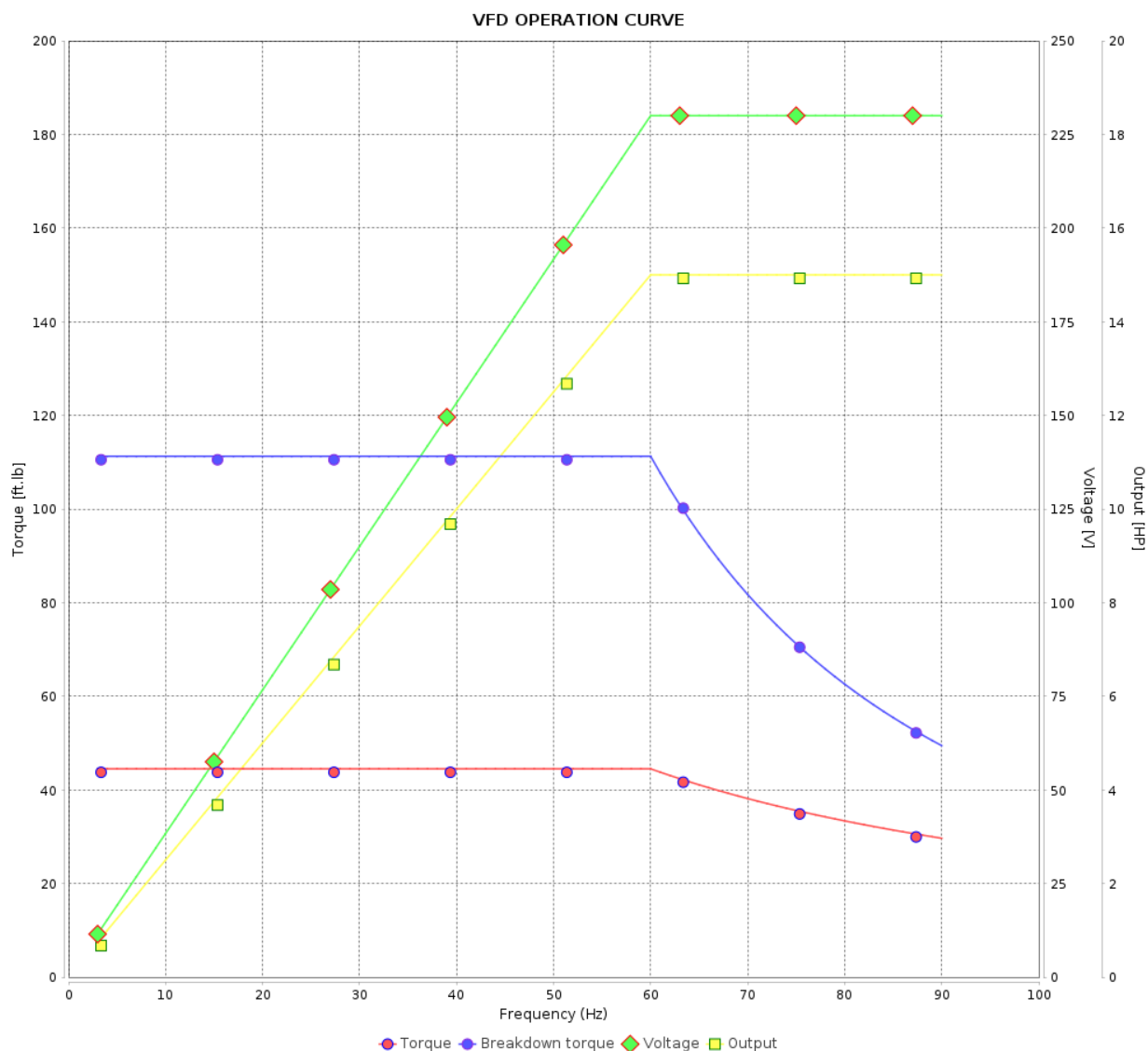


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Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 6 / 6	Revision
Checked by					
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