

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12546171
Catalog # : CT025406NPW22

Frame	: 324/6TC	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 25 HP (18.5 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 61.6/30.8 A	Protection degree	: IP55
L. R. Amperes	: 382/191 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: F-1
No load current	: 27.0/13.5 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1180 rpm	Noise level ²	: 62.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 111 ft.lb	Approx. weight ³	: 560 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 11.5 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	92.4	93.0	93.0	Max. traction	: 1021 lb
Power Factor	0.65	0.76	0.81	Max. compression	: 1549 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)
7.3	6.1	6.0	3.6	2.5	1.7	1.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 C3	6212 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	13 g
Lubricant type	:	Mobil Polyrex EM	

Notes

USABLE @208V 67.2A SF 1.15 SFA 77.3A

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

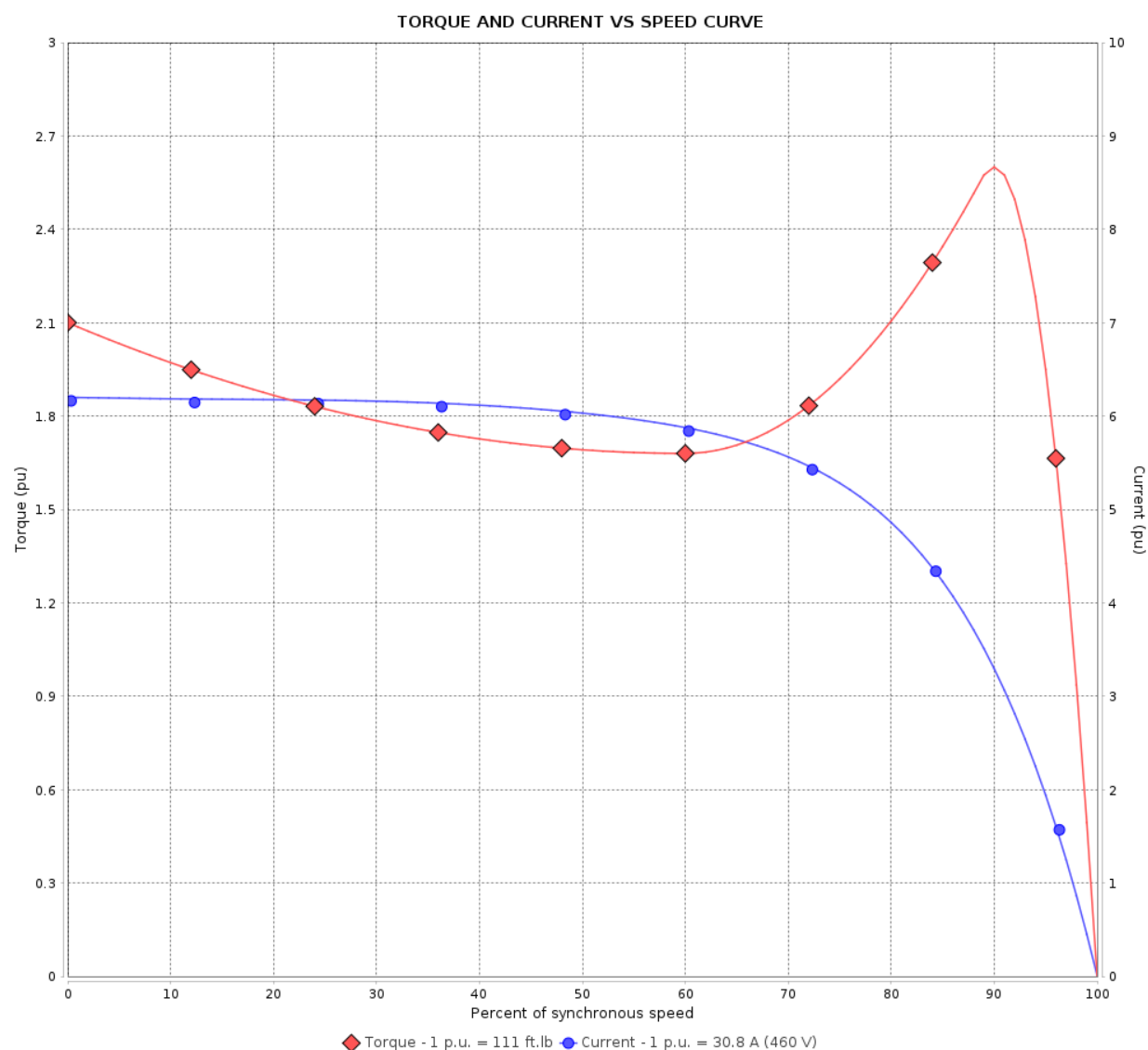


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Rated speed : 1180 rpm

Moment of inertia (J) : 11.5 sq.ft.lb
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Insulation class : F
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Locked rotor time : 46s (cold) 26s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

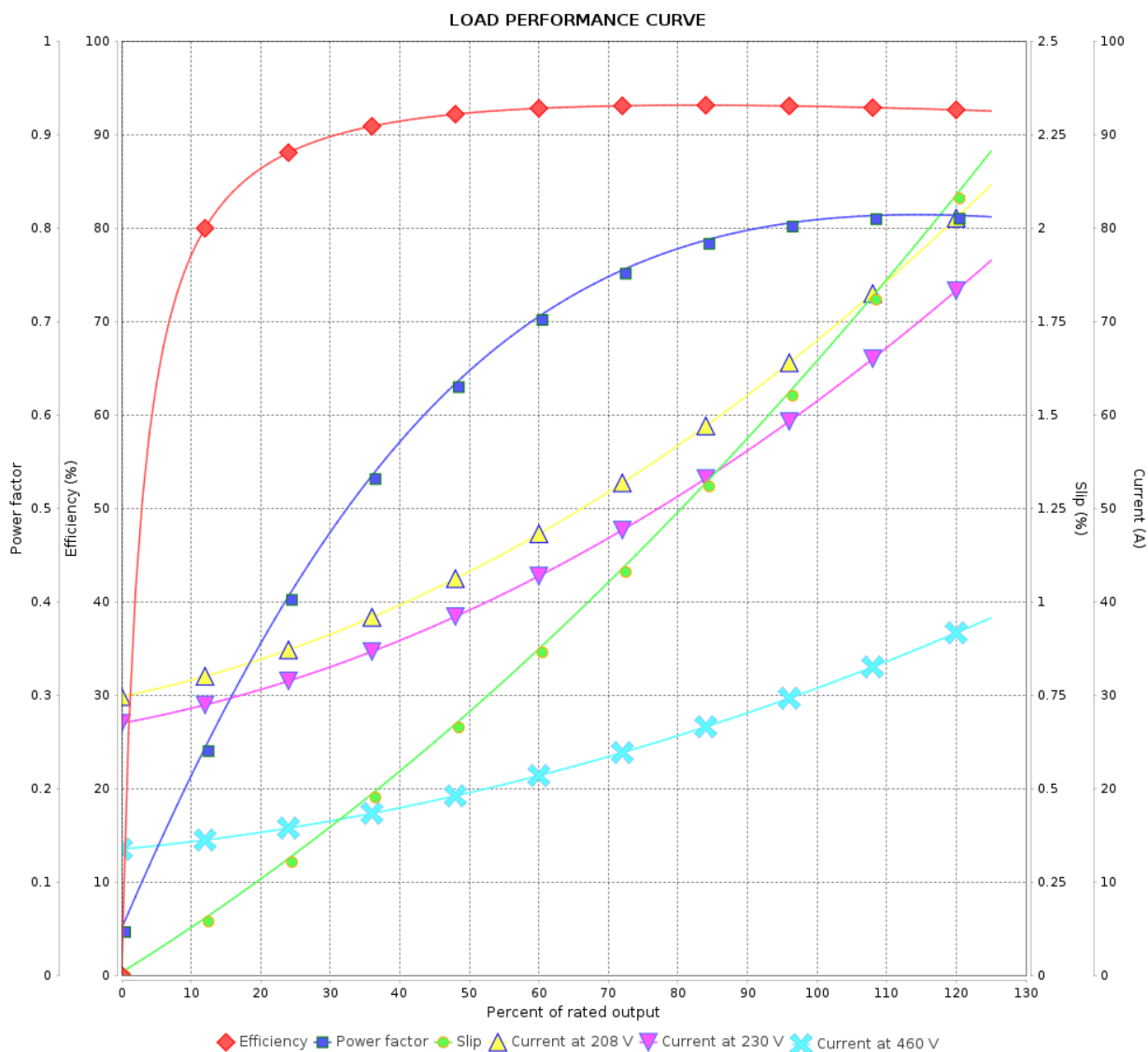


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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

Rev.

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Checked by

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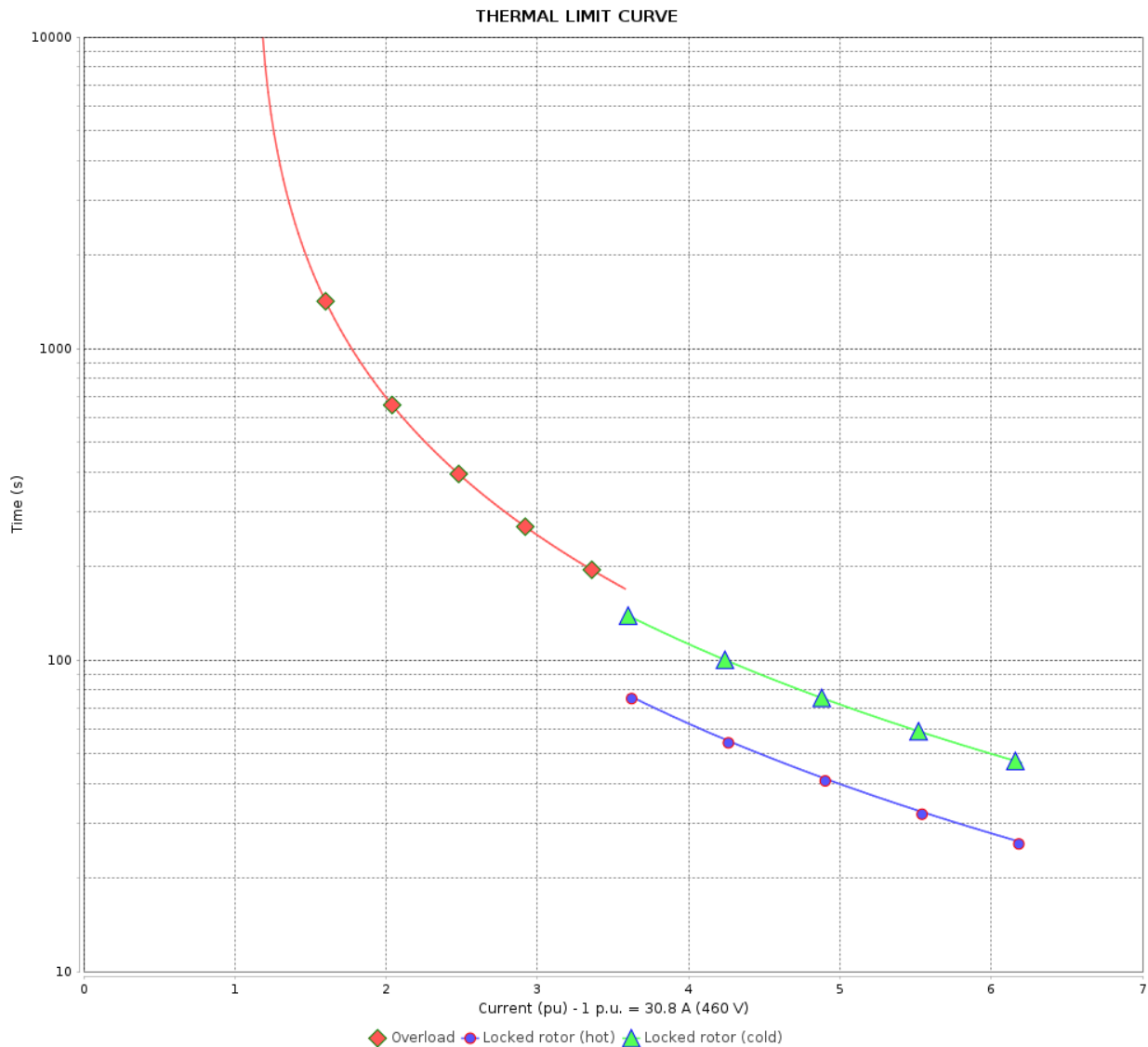
Revision

THERMAL LIMIT CURVE

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VFD OPERATION CURVE

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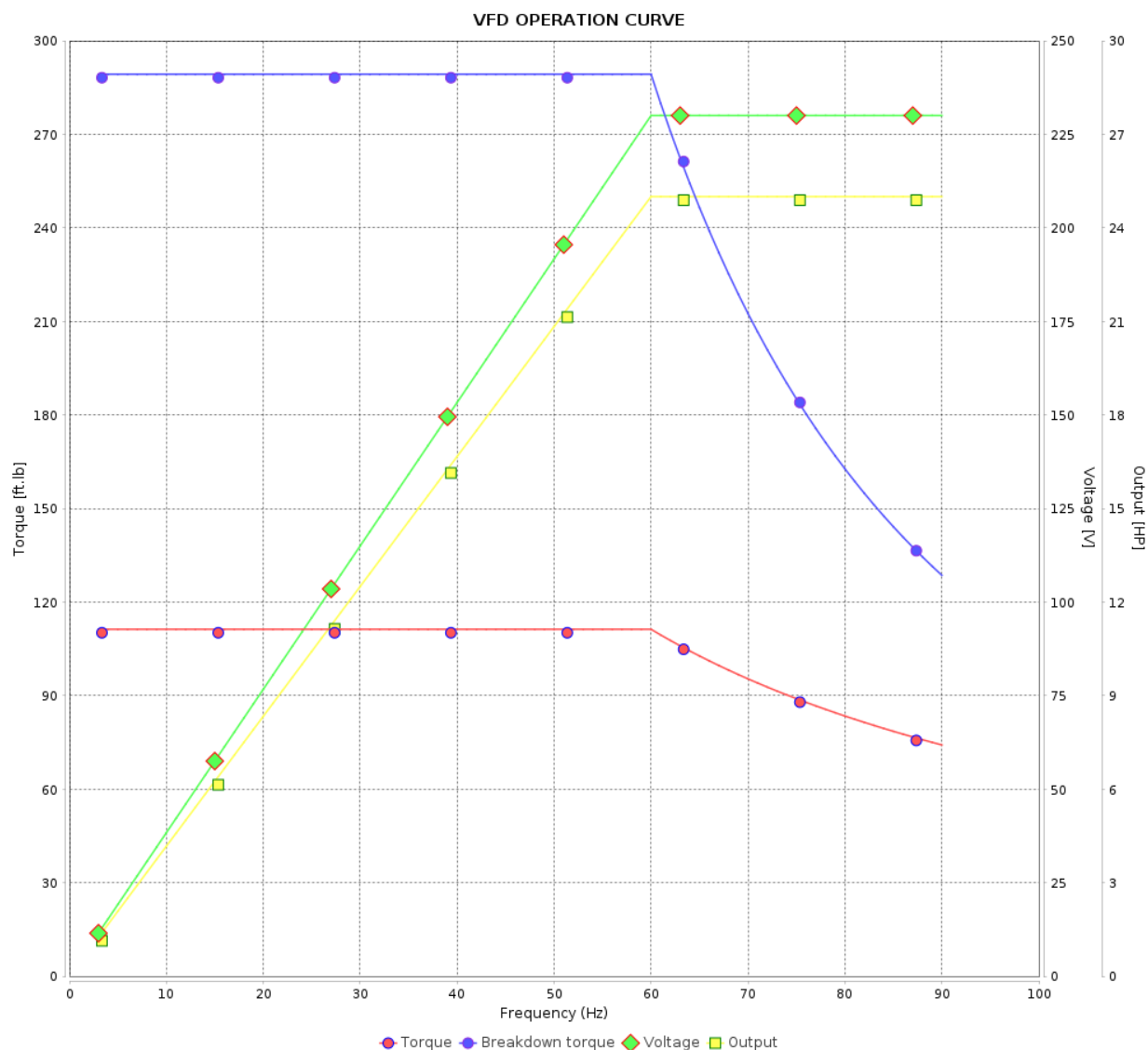


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