

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11413120
Catalog # : HT030402NPW22

Frame	: 284/6TS	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 30 HP (22 kW)	Temperature rise	: 80 K
Frequency	: 60 Hz	Duty cycle	: Cont.(S1)
Rated voltage	: 230/460 V	Ambient temperature	: -20°C to +40°C
Poles	: 2	Altitude	: 1000 m.a.s.l.
Rated current	: 68.4/34.2 A	Protection degree	: IP55
	: 6.3x(Code G)	Cooling method	: IC411 - TEFC
Rated speed	: 3545 rpm	Mounting	: F-1
Rated torque	: 44.4 ft.lb	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 72.0 dB(A)
Service factor	: 1.25	Starting method	: Direct On Line
Moment of inertia (J)	: 3.37 sq.ft.lb	Approx. weight ³	: 392 lb
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	91.7	91.7	91.7	Max. traction	: 370 lb
Power Factor	0.00	0.80	0.86	0.88	Max. compression	: 753 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)
8.6	6.7	5.9	4.2	2.5	1.5	0.9

	Drive end	Non drive end
Bearing type	: 6311 C3	6211 C3
Sealing	: V'Ring	V'Ring
Lubrication interval	: 14000 h	17000 h
Lubricant amount	: 18 g	11 g
Lubricant type	Mobil Polyrex EM	

Notes

USABLE @208V 76.7A SF 1.10 SFA 84.4A

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

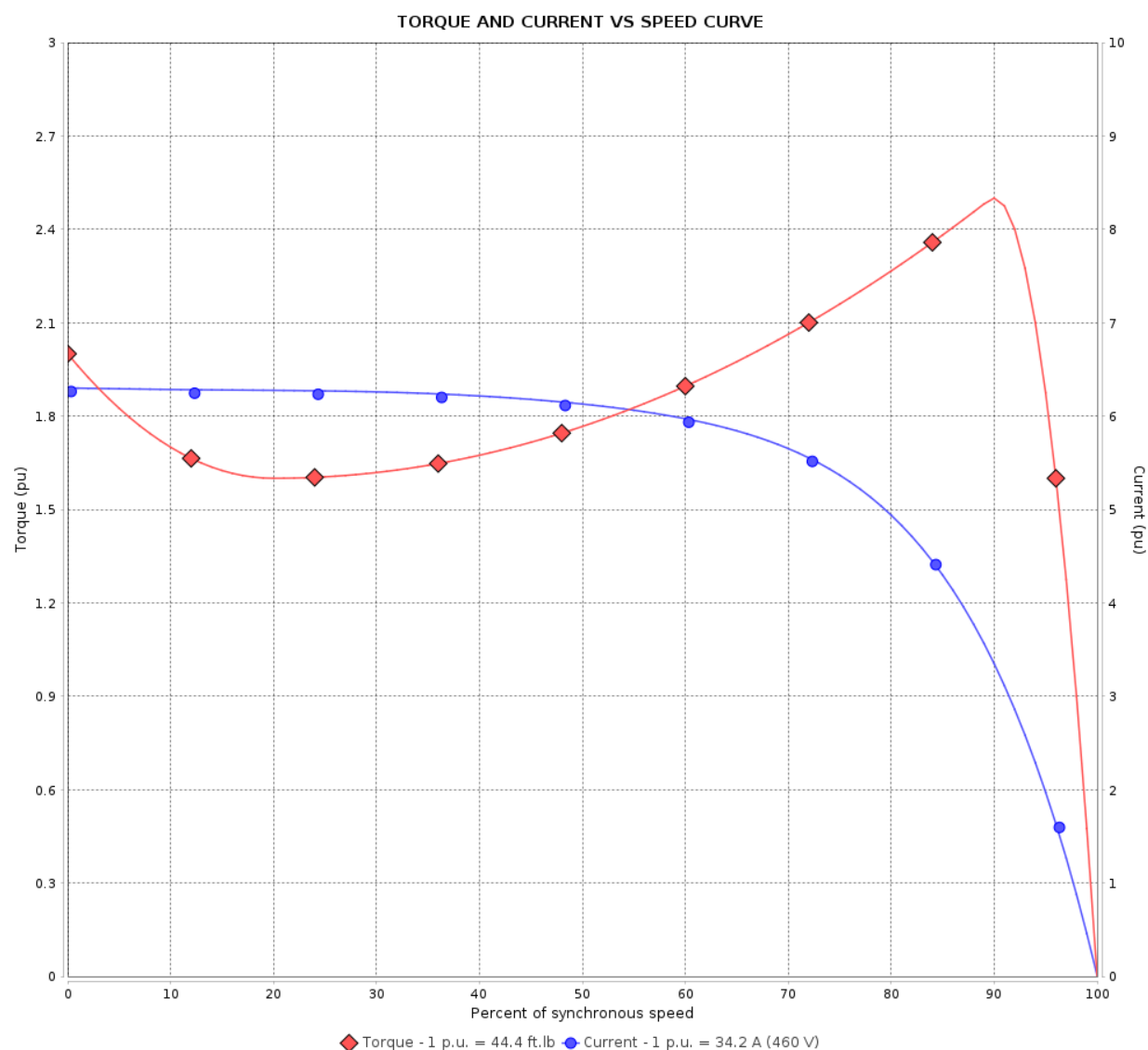


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Three-Phase

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Performance : 230/460 V 60 Hz 2P

Rated current : 68.4/34.2 A
LRC : 6.3
Rated torque : 44.4 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 250 %
Rated speed : 3545 rpm

Moment of inertia (J) : 3.37 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Duty cycle : Cont.(S1)

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

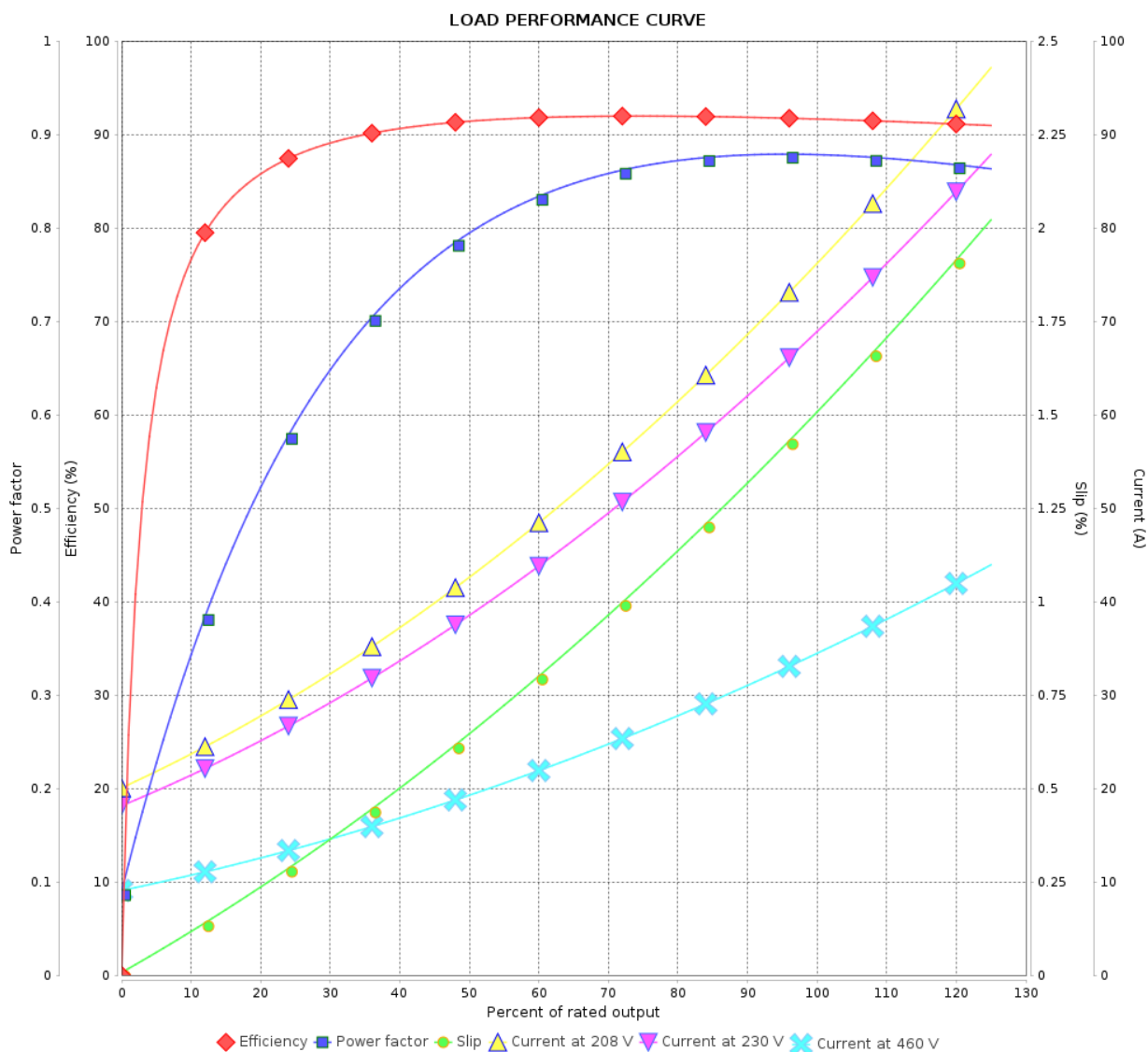


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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

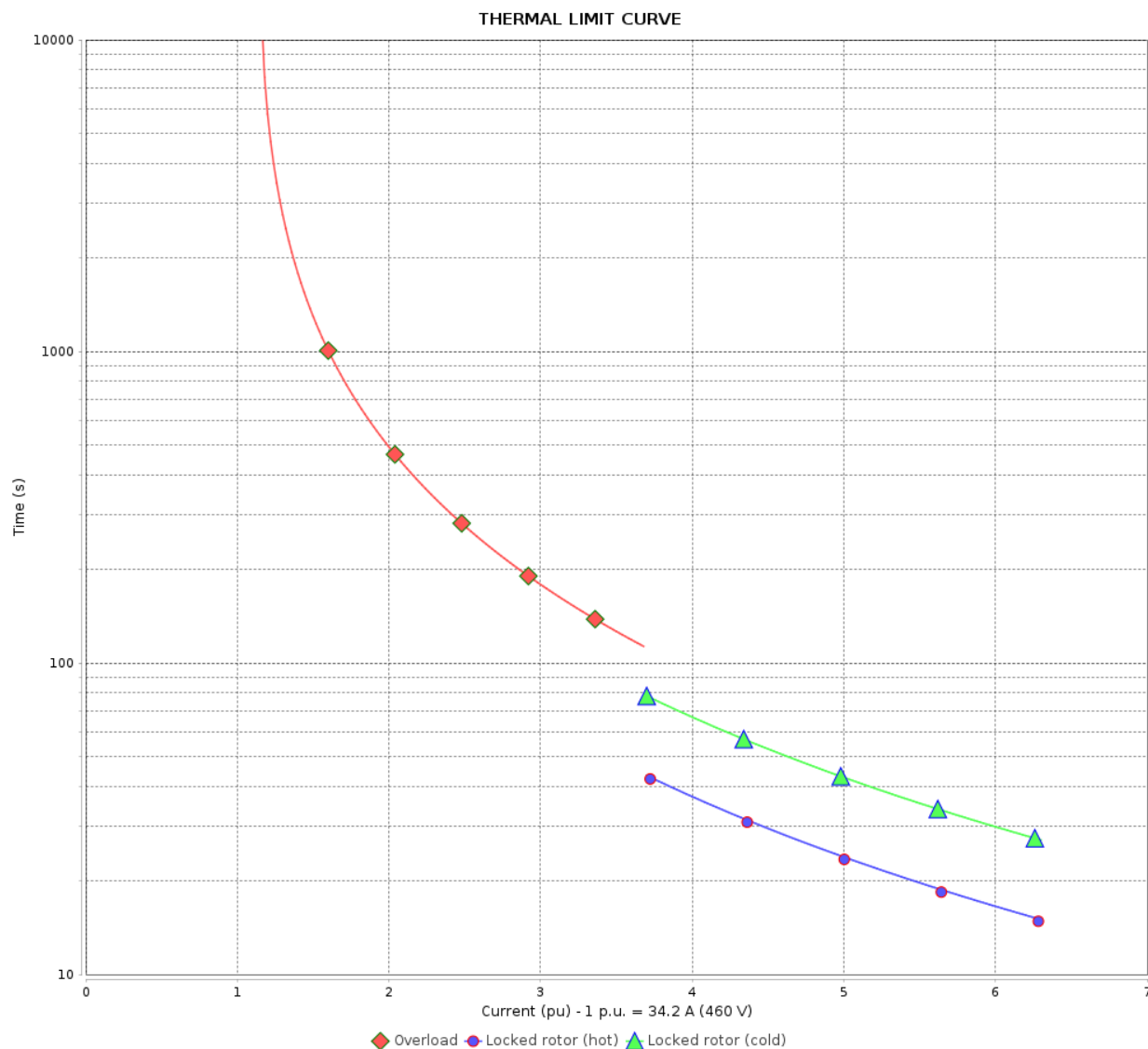


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Heating constant
Cooling constant

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VFD OPERATION CURVE

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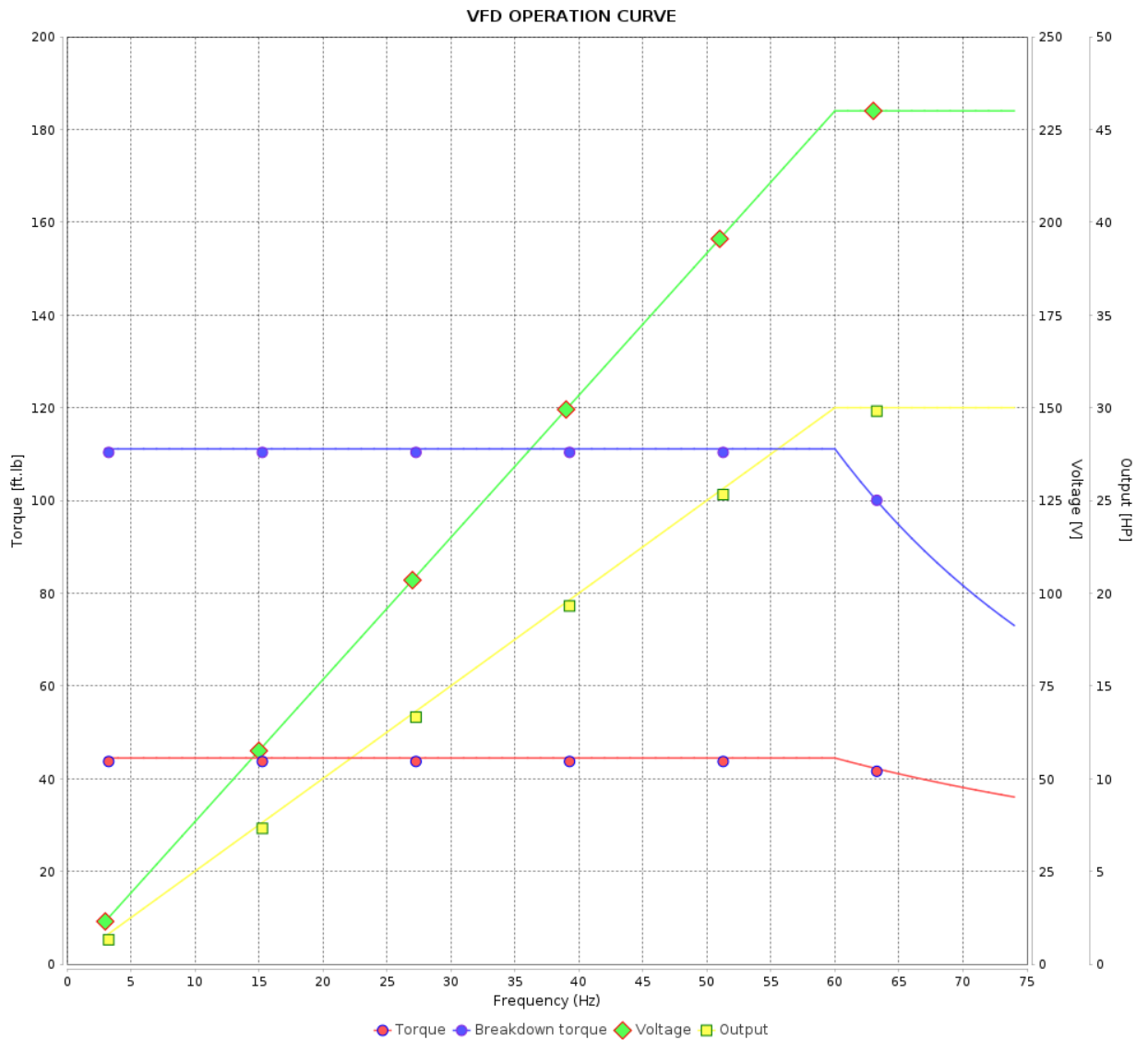


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