

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11165758
Catalog # : HT050506NPW22

Frame	: 364/5T	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 50 HP (37 kW)	Temperature rise	: 80 K
Frequency	: 60 Hz	Duty cycle	: Cont.(S1)
Rated voltage	: 575 V	Ambient temperature	: -20°C to +40°C
Poles	: 6	Altitude	: 1000 m.a.s.l.
Rated current	: 45.9 A	Protection degree	: IP55
	: 6.4x(Code G)	Cooling method	: IC411 - TEFC
Rated speed	: 1183 rpm	Mounting	: F-1
Rated torque	: 222 ft.lb	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 66.0 dB(A)
Service factor	: 1.25	Starting method	: Direct On Line
Moment of inertia (J)	: 32.4 sq.ft.lb	Approx. weight ³	: 869 lb
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	93.6	94.1	94.1	Max. traction	: 1395 lb
Power Factor	0.74	0.83	0.86	Max. compression	: 2252 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)
6.2	5.2	4.6	2.8	1.9	1.2	0.8

	Drive end	Non drive end
Bearing type	: 6314 C3	6314 C3
Sealing	: WSeal	WSeal
Lubrication interval	: 17000 h	17000 h
Lubricant amount	: 27 g	27 g
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.

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TORQUE AND CURRENT VS SPEED CURVE

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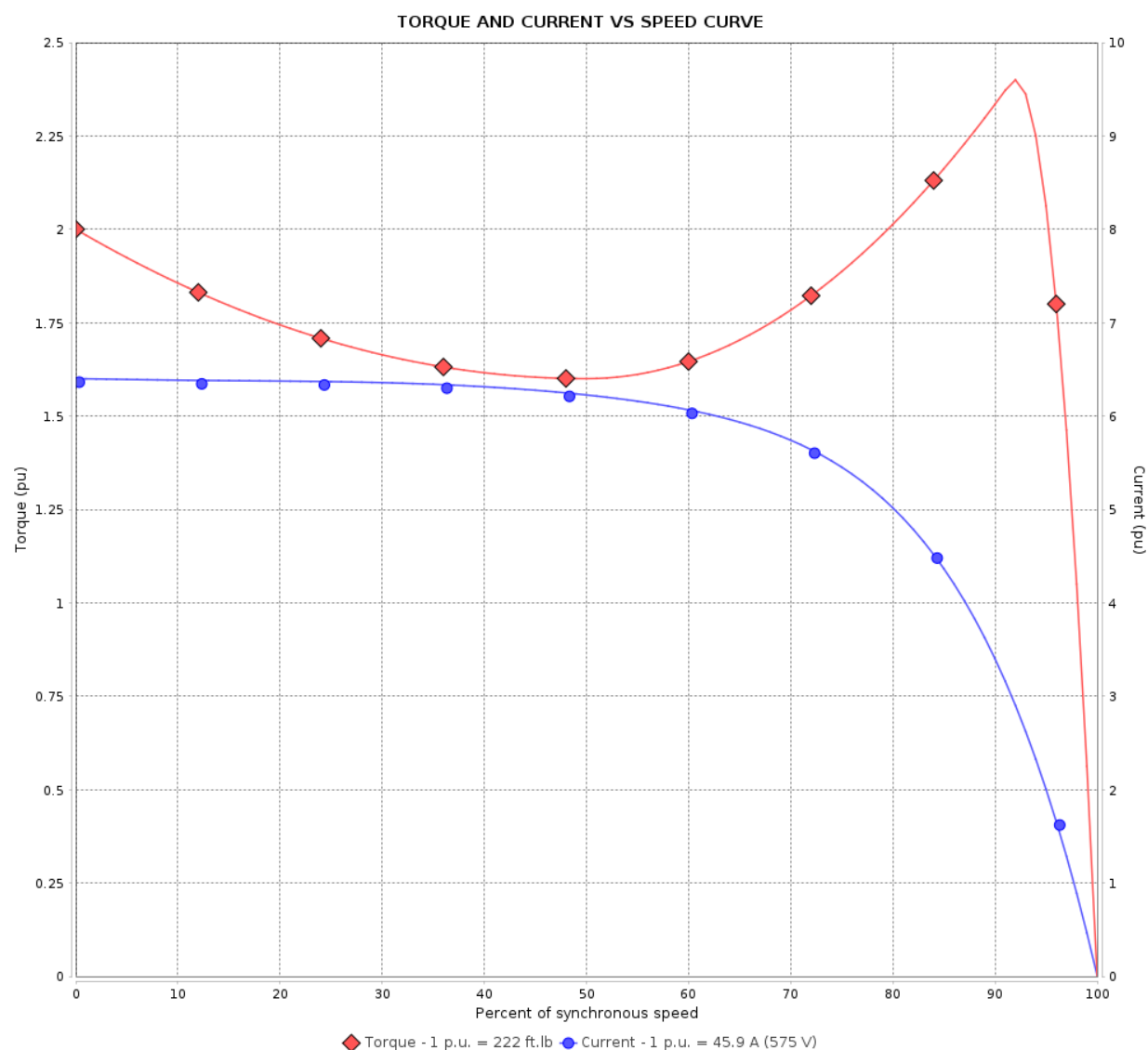


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Performance : 575 V 60 Hz 6P

Rated current : 45.9 A
LRC : 6.4
Rated torque : 222 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 1183 rpm

Moment of inertia (J) : 32.4 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Duty cycle : Cont.(S1)

Locked rotor time : 32s (cold) 18s (hot)

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LOAD PERFORMANCE CURVE

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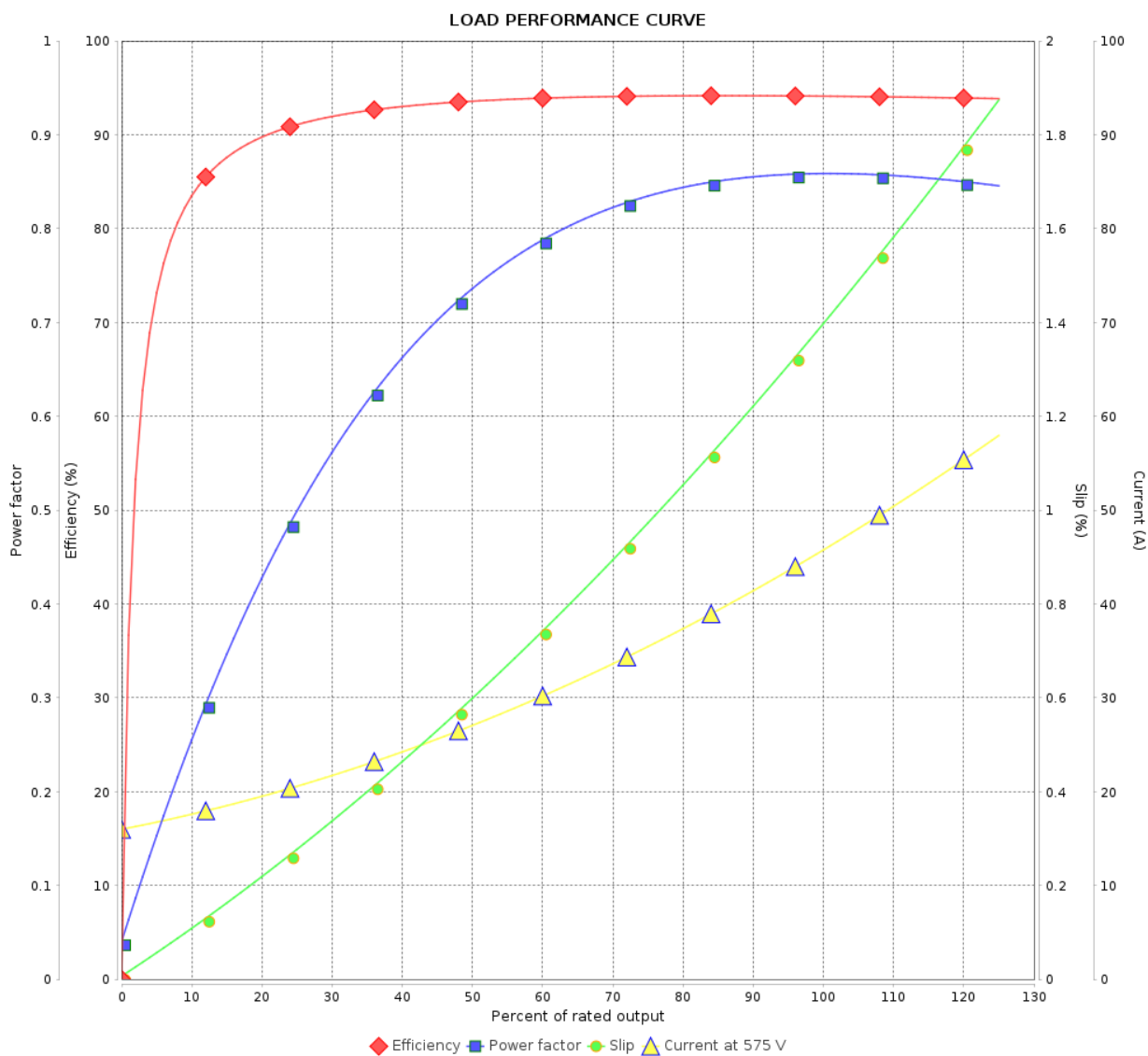


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THERMAL LIMIT CURVE

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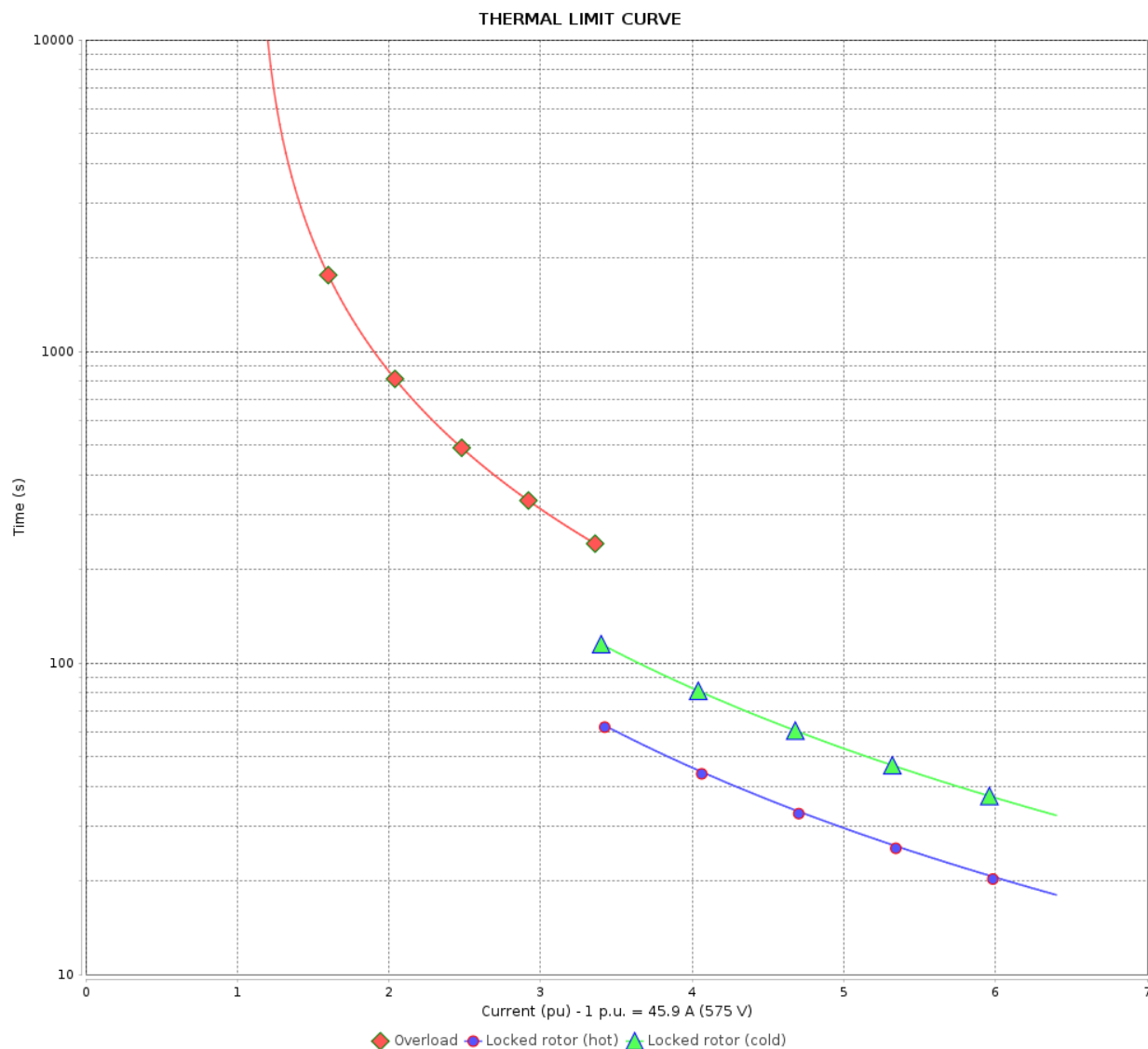


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Heating constant
Cooling constant

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VFD OPERATION CURVE

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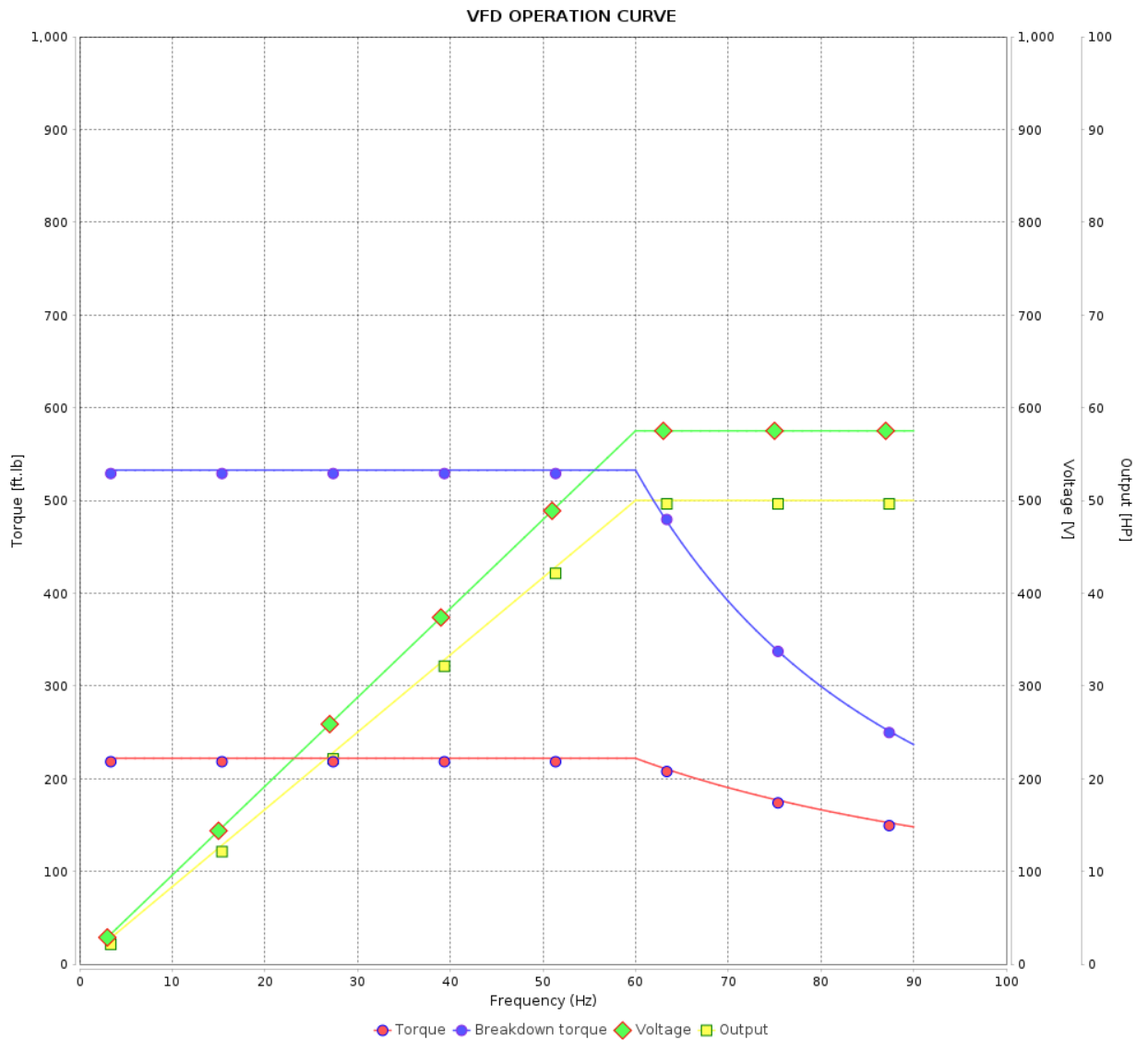


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