

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11815159
Catalog # : HT250504NPRBW22449T

Frame	: 447/9T	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 250 HP (185 kW)	Temperature rise	: 80 K
Frequency	: 60 Hz	Duty cycle	: Cont.(S1)
Rated voltage	: 575 V	Ambient temperature	: -20°C to +40°C
Poles	: 4	Altitude	: 1000 m.a.s.l.
Rated current	: 225 A	Protection degree	: IP55
	: 6.5x(Code G)	Cooling method	: IC411 - TEFC
Rated speed	: 1780 rpm	Mounting	: F-1
Rated torque	: 738 ft.lb	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 75.0 dB(A)
Service factor	: 1.15	Starting method	: Direct On Line
Moment of inertia (J)	: 89.6 sq.ft.lb	Approx. weight ³	: 2359 lb
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.8	96.2	96.2	Max. traction	: 3130 lb
Power Factor	0.75	0.83	0.86	Max. compression	: 5915 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)
4.2	3.5	3.2	2.0	1.4	0.9	0.6

	Drive end	Non drive end
Bearing type	: NU-322 C3	6319 C3
Sealing	: WSeal	WSeal
Lubrication interval	: 4000 h	8000 h
Lubricant amount	: 60 g	45 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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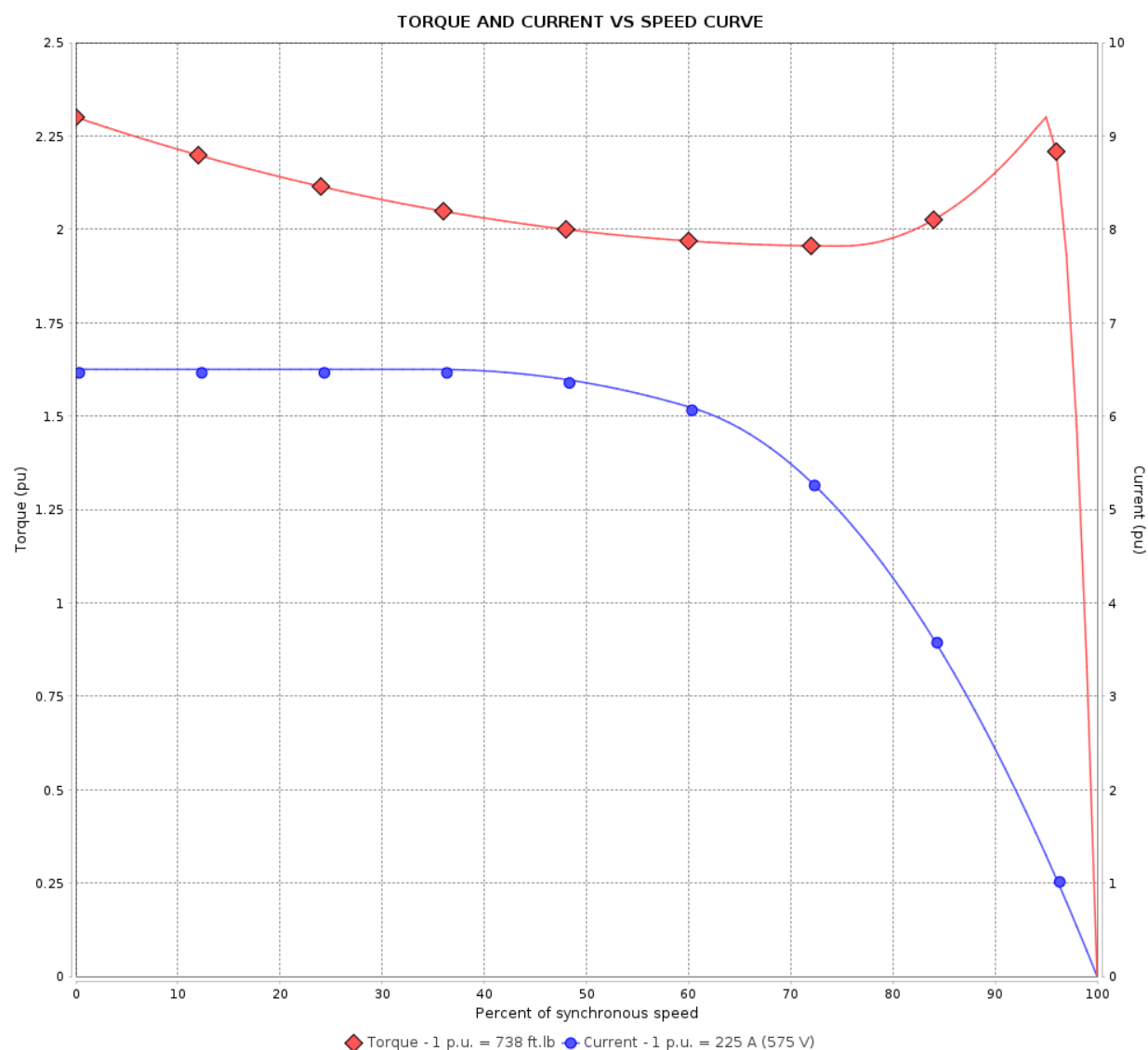


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Performance : 575 V 60 Hz 4P

Rated current : 225 A
LRC : 6.5
Rated torque : 738 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 229 %
Rated speed : 1780 rpm

Moment of inertia (J) : 89.6 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Duty cycle : Cont.(S1)

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

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LOAD PERFORMANCE CURVE

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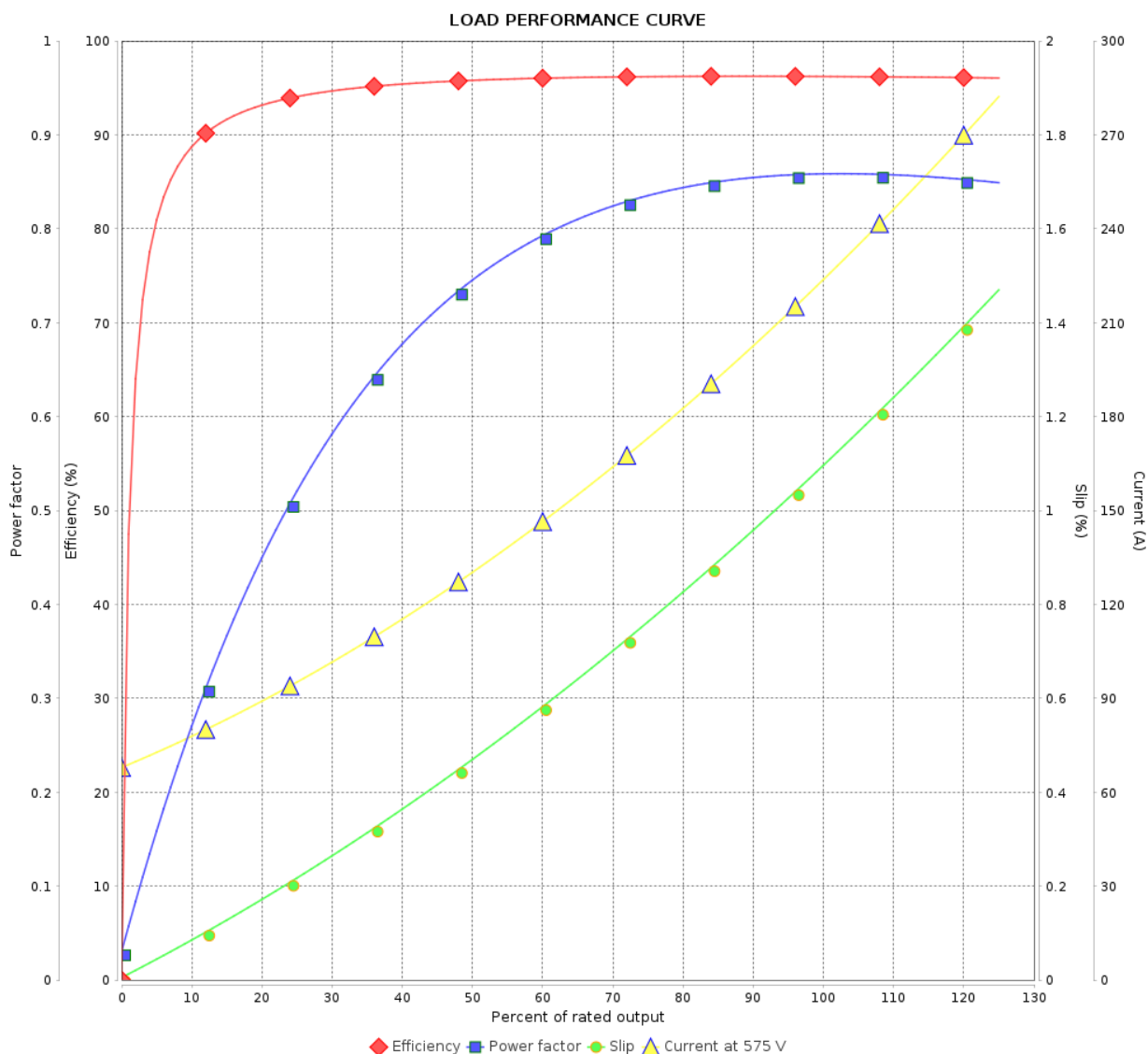


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THERMAL LIMIT CURVE

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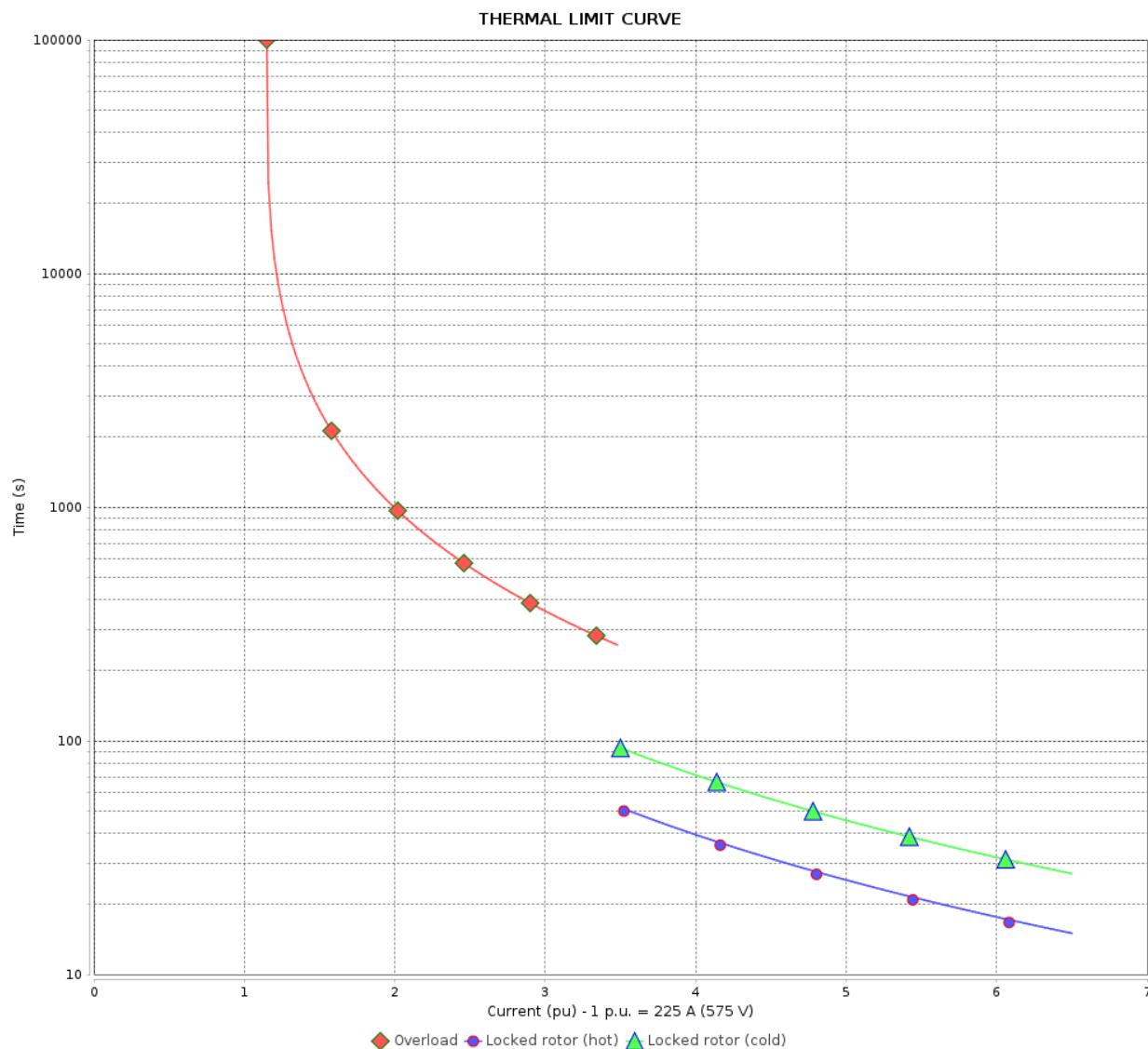


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Heating constant
Cooling constant

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VFD OPERATION CURVE

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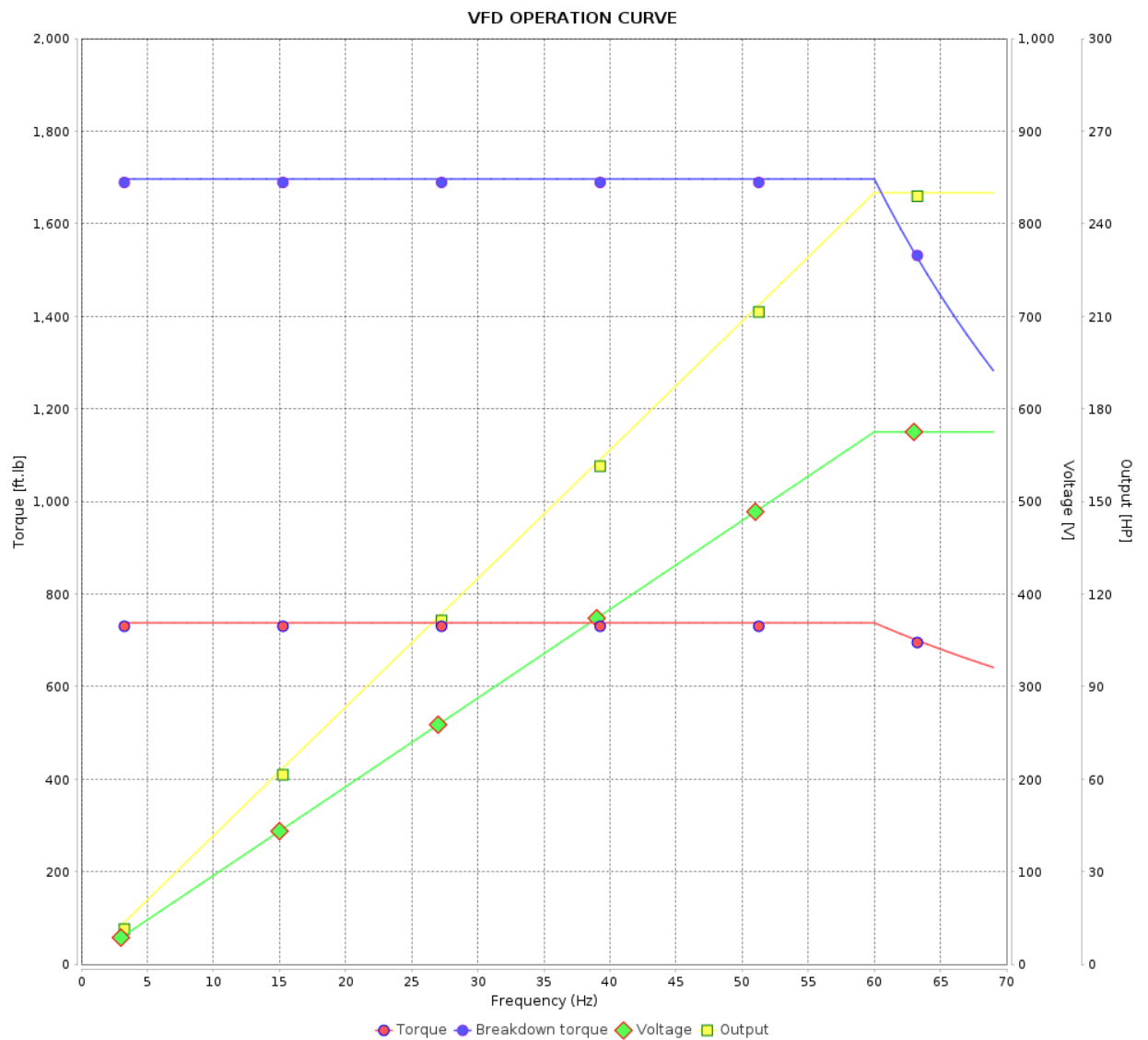


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