

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Centrifugal Pump Three-Phase

Product code : 10614350
Catalog # : JT.75502

Frame : B56J
Output : 0.75 HP (0.55 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 0.920 A
L. R. Amperes : 7.08 A
LRC : 7.7x(Code L)
No load current : 0.520 A
Rated speed : 3470 rpm
Slip : 3.61 %
Rated torque : 1.13 ft.lb
Locked rotor torque : 380 %
Breakdown torque : 400 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.0356 sq.ft.lb

Locked rotor time : 18s (cold) 10s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : CCW
Starting method : Direct On Line
Approx. weight³ : 24.3 lb

Output	50%	75%	100%
Efficiency (%)	68.0	74.0	76.0
Power Factor	0.60	0.72	0.81

Foundation loads
Max. traction : 32 lb
Max. compression : 56 lb

	Drive end	Non drive end
Bearing type	6203 2RS	6202 2RS
Sealing	V'Ring	V'Ring
Lubrication interval	-	-
Lubricant amount	-	-
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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		Revision		

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

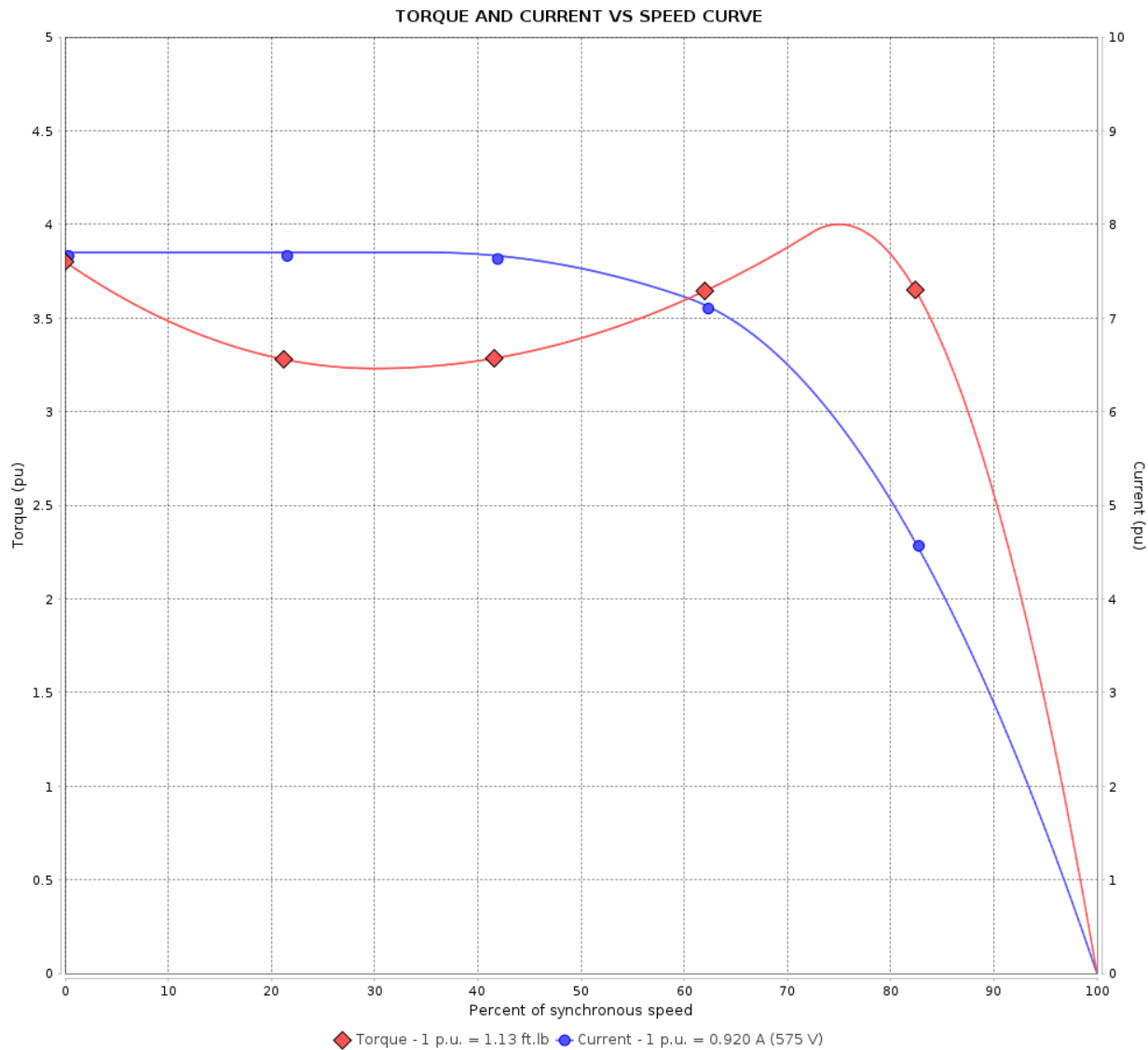


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Performance : 575 V 60 Hz 2P

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LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 1.13 ft.lb	Insulation class	: F
Locked rotor torque	: 380 %	Service factor	: 1.15
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 3470 rpm		

Locked rotor time : 18s (cold) 10s (hot)

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LOAD PERFORMANCE CURVE

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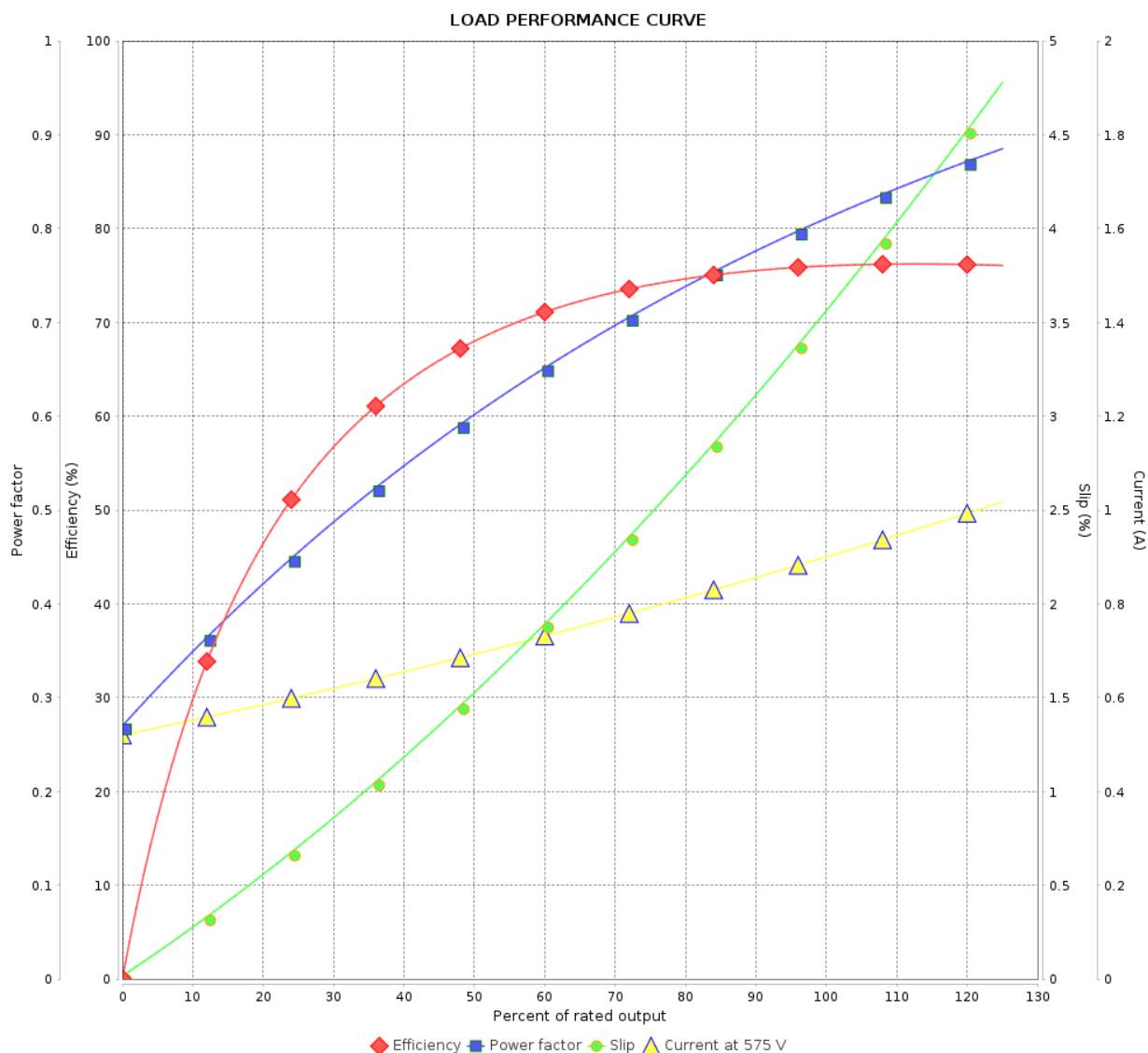


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THERMAL LIMIT CURVE

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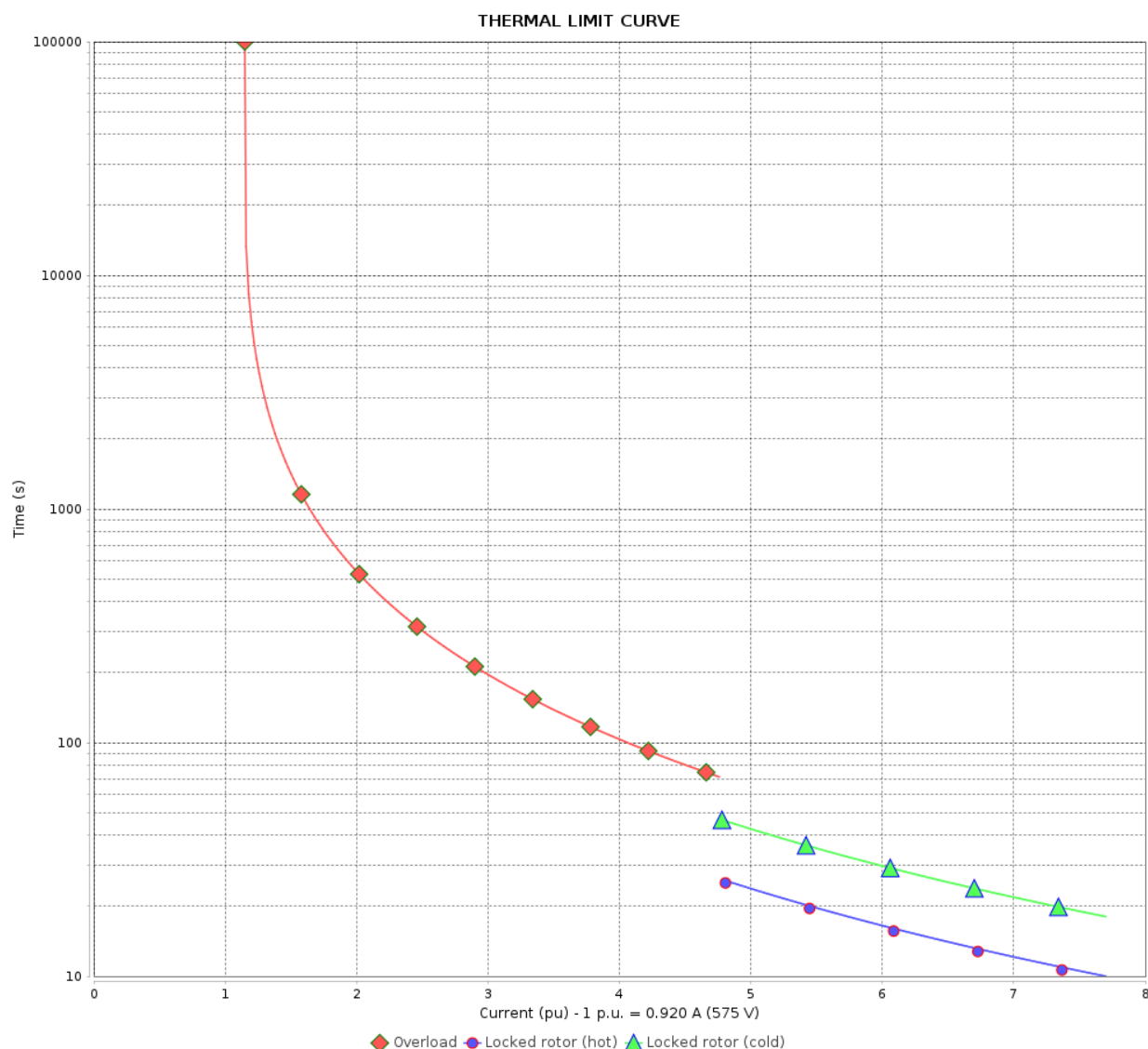


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Heating constant

Cooling constant

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VFD OPERATION CURVE

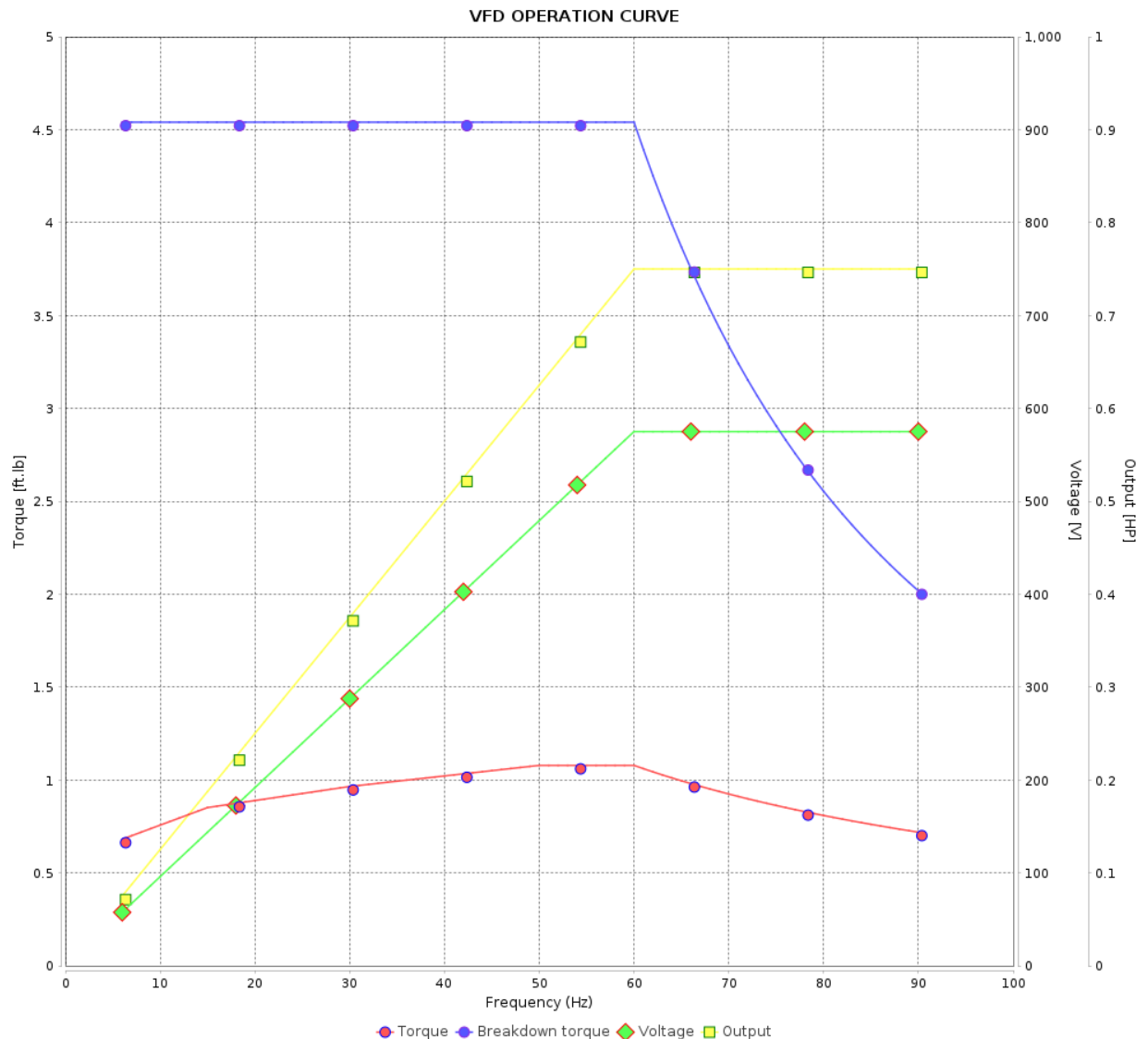
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