

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 14407578

Frame : 324TC
Output : 40 HP (30 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 38.6 A
L. R. Amperes : 297 A
LRC : 7.7x(Code J)
No load current : 18.4 A
Rated speed : 1780 rpm
Slip : 1.11 %
Rated torque : 16.3 kgfm
Locked rotor torque : 270 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.3441 kgm²
Design : B

Locked rotor time : 34s (cold) 19s (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 : Both (CW and CCW)
Noise level² : 71.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 298 kg

Output	50%	75%	100%
Efficiency (%)	93.0	94.1	94.1
Power Factor	0.66	0.77	0.83

Foundation loads
Max. traction : 467 kgf
Max. compression : 765 kgf

	Drive end	Non drive end
Bearing type	6312 C3	6212 C3
Sealing	Oil Seal	Lip Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	21 g	13 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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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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LOAD PERFORMANCE CURVE

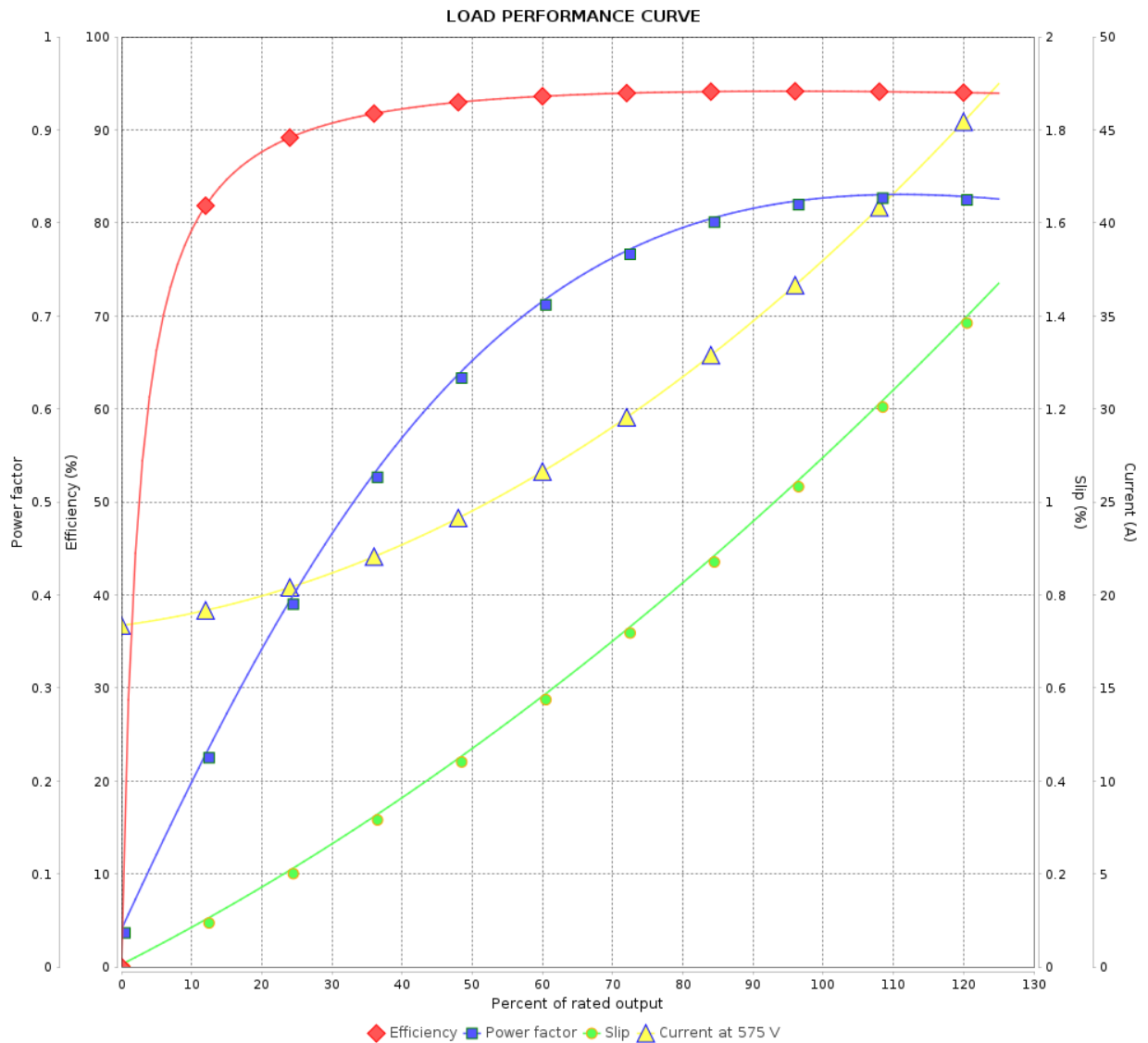
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Performance : 575 V 60 Hz 4P

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