

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase Product code : 15551823

Frame	: 254T	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 15 HP (11 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 14.7 A	Protection degree	: IP56
L. R. Amperes	: 107 A	Cooling method	: IC411 - TEFC
LRC	: 7.3x(Code J)	Mounting	: F-3
No load current	: 6.88 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1770 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 6.15 kgfm	Approx. weight ³	: 149 kg
Locked rotor torque	: 300 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0974 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.2	91.7	92.4	Max. traction	: 215 kgf
Power Factor	0.65	0.75	0.81	Max. compression	: 365 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6209 C3
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 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

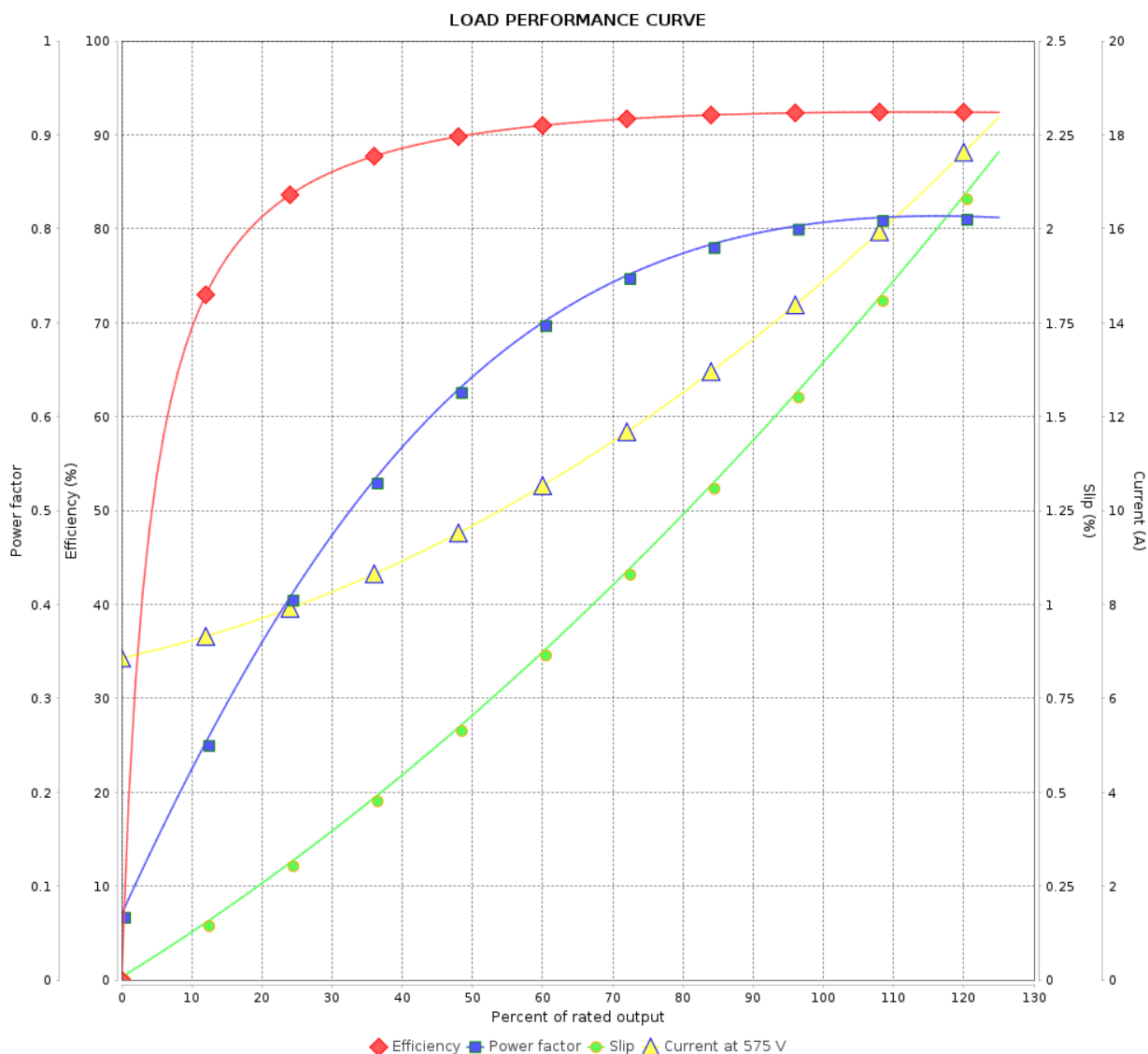
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 15551823



Performance : 575 V 60 Hz 4P

Rated current : 14.7 A
LRC : 7.3
Rated torque : 6.15 kgfm
Locked rotor torque : 300 %
Breakdown torque : 300 %
Rated speed : 1770 rpm

Moment of inertia (J) : 0.0974 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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