

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase Product code : 12682574

Frame	: 143/5TC	Locked rotor time	: 30s (cold) 17s (hot)
Output	: 2 HP (1.5 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	: 2.15 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 16.6 A	Mounting	: F-1
LRC	: 7.7x(Code K)	Rotation ¹	: Both (CW and CCW)
No load current	: 1.10 A	Noise level ²	: 52.0 dB(A)
Rated speed	: 1740 rpm	Starting method	: Direct On Line
Slip	: 3.33 %	Approx. weight ³	: 18.1 kg
Rated torque	: 0.834 kgfm		
Locked rotor torque	: 260 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0049 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	85.5	86.5	86.5	Max. traction	: 67 kgf
Power Factor	0.61	0.74	0.81	Max. compression	: 85 kgf

	Drive end	Non drive end
Bearing type	: 6205 ZZ	: 6203 ZZ
Sealing	: Without Bearing Seal	: Without Bearing Seal
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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LOAD PERFORMANCE CURVE

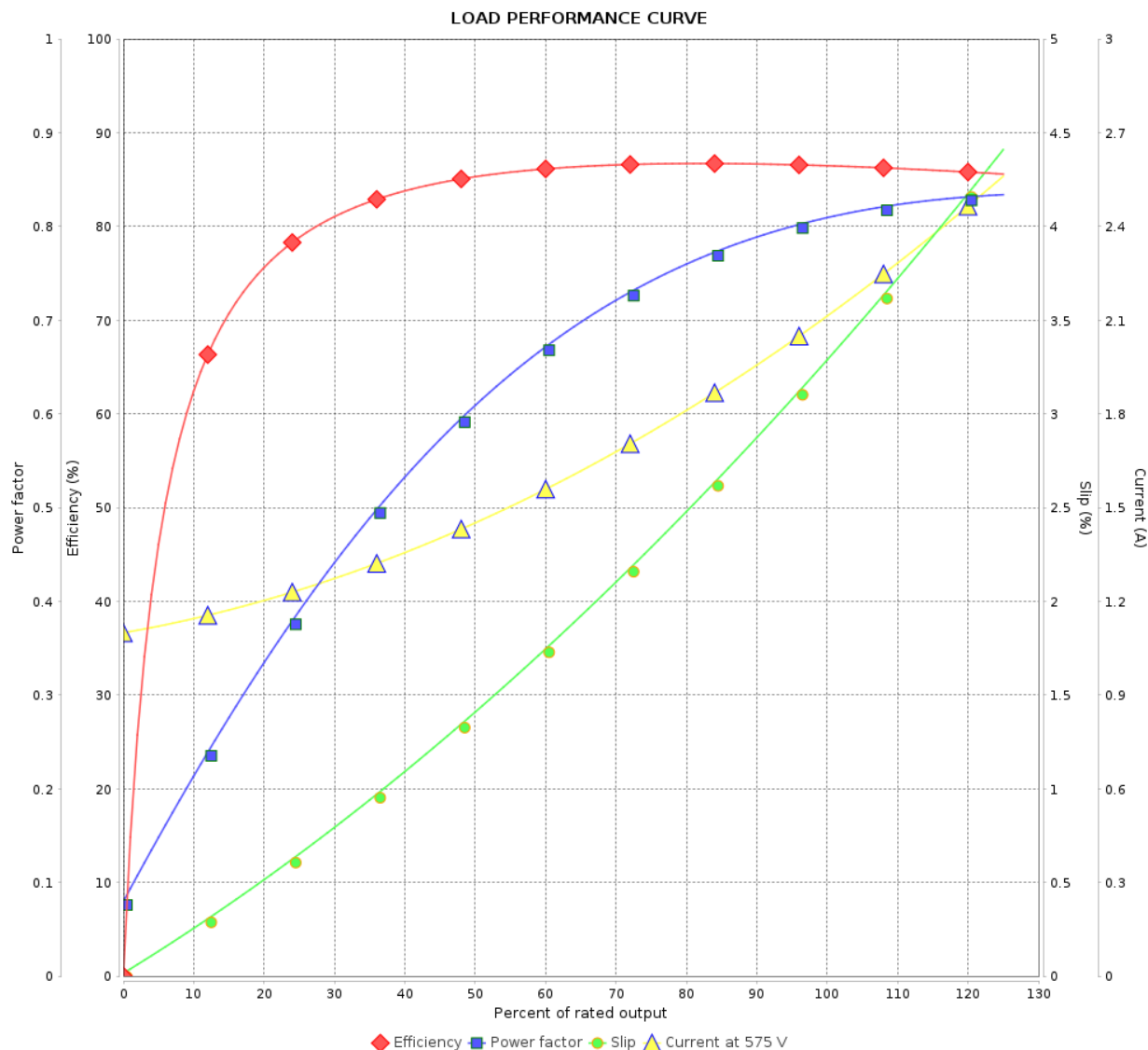
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Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12682574



Performance : 575 V 60 Hz 4P

Rated current : 2.15 A
LRC : 7.7
Rated torque : 0.834 kgfm
Locked rotor torque : 260 %
Breakdown torque : 320 %
Rated speed : 1740 rpm

Moment of inertia (J) : 0.0049 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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