

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase Product code : 12706984

Frame	: 254/6TC	Locked rotor time	: 16s (cold) 9s (hot)
Output	: 25 HP (18.5 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 23.3 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 147 A	Mounting	: F-1
LRC	: 6.3x(Code G)	Rotation ¹	: Both (CW and CCW)
No load current	: 9.12 A	Noise level ²	: 70.0 dB(A)
Rated speed	: 3530 rpm	Vibration	: A
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 5 kgfm	Approx. weight ³	: 78.9 kg
Locked rotor torque	: 180 %	Painting plan	: 207N (ISO 12944 - C2)
Breakdown torque	: 290 %	Color	: Munsell N 1 - Matte
Insulation class	: F	Design	: B
Service factor	: 1.15		
Moment of inertia (J)	: 0.0386 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	91.0	91.7	91.7	Max. traction	: 190 kgf
Power Factor	0.73	0.83	0.87	Max. compression	: 279 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 Z C3	6208 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	8 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page Revision 1 / 2		
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Date	20/09/2026			

LOAD PERFORMANCE CURVE

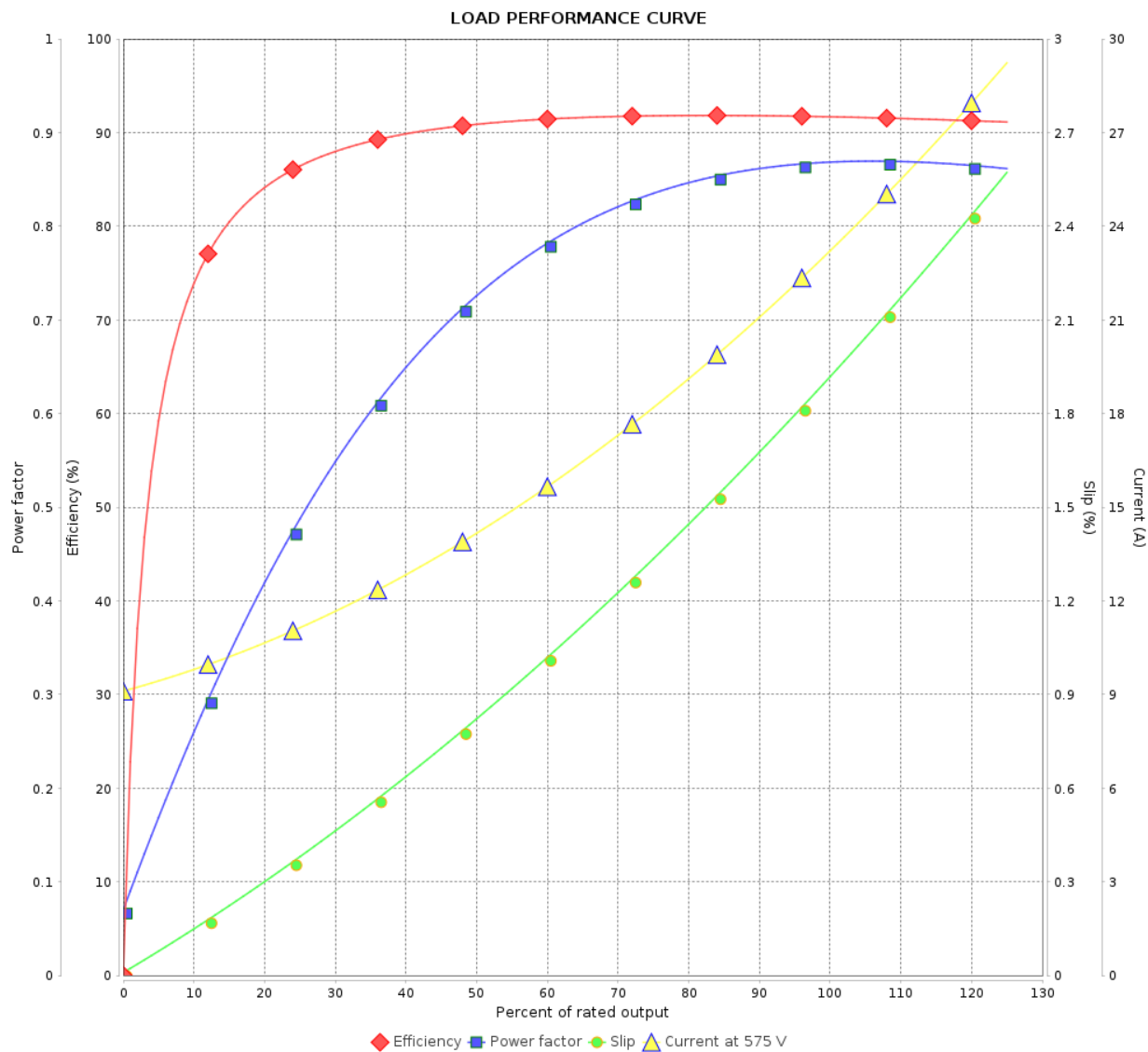
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12706984



Performance : 575 V 60 Hz 2P

Rated current : 23.3 A
LRC : 6.3
Rated torque : 5 kgfm
Locked rotor torque : 180 %
Breakdown torque : 290 %
Rated speed : 3530 rpm

Moment of inertia (J) : 0.0386 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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