

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase      Product code : 14300942

Frame	: 90L/MS	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S6
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 11.7 A	Protection degree	: IP54
L. R. Amperes	: 100 A	Cooling method	: IC411 - TEFC
LRC	: 8.5	Mounting	: B3R(D)
No load current	: 6.50 A	Rotation <sup>1</sup>	: CCW
Rated speed	: 1715 rpm	Noise level <sup>2</sup>	: 55.0 dB(A)
Slip	: 4.72 %	Starting method	: Direct On Line
Rated torque	: 4.23 kgfm	Approx. weight <sup>3</sup>	: 82.3 kg
Locked rotor torque	: 459 %		
Breakdown torque	: 450 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0168 kgm <sup>2</sup>		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	84.5	85.5	85.5	Max. traction	: 434 kgf
Power Factor	0.54	0.67	0.75	Max. compression	: 517 kgf

	Drive end	Non drive end
Bearing type	: 6308 ZZ	: 6208 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page      Revision 1 / 2		
Checked by				
Date	28/10/2024			

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

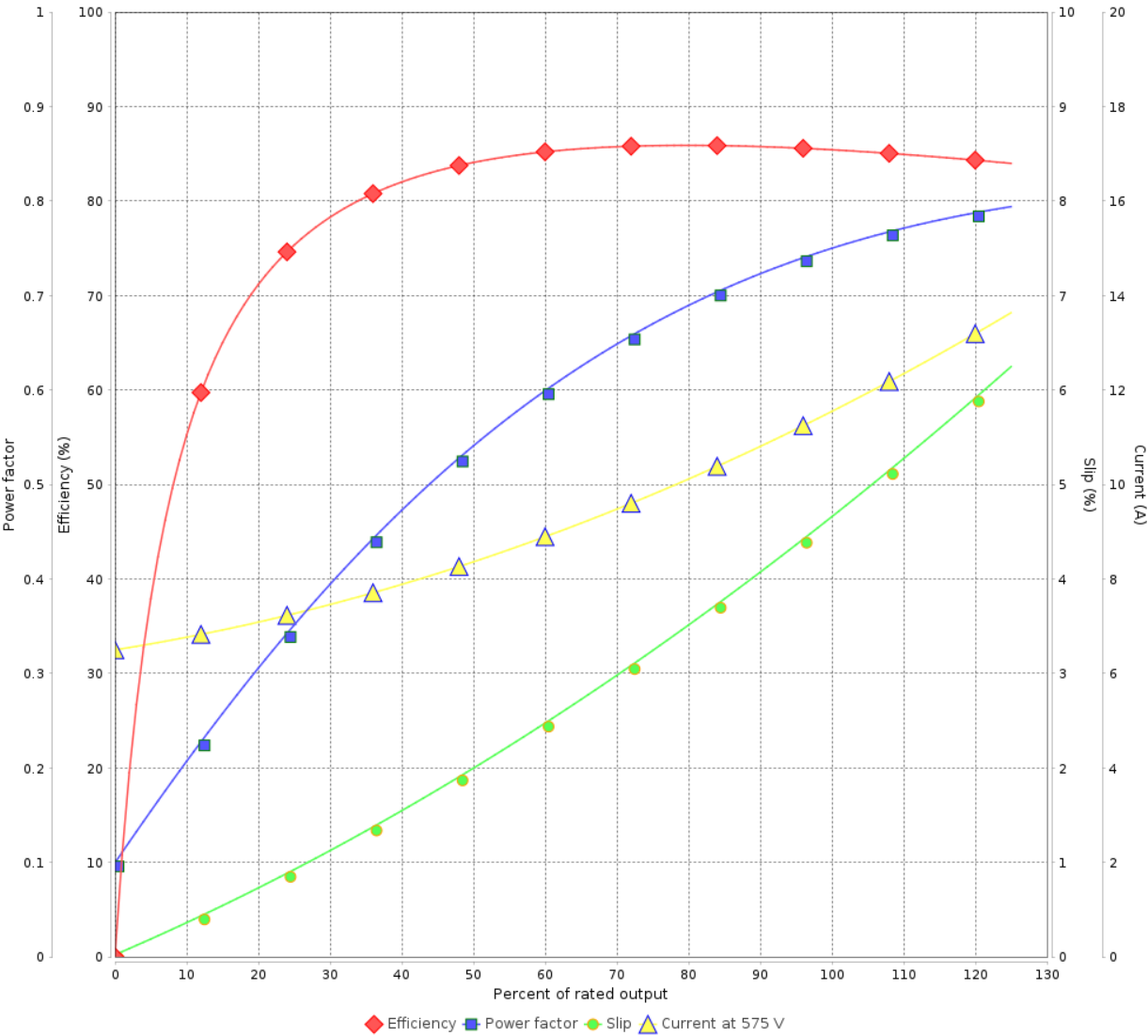


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Product line : Saw Arbor Motor Standard  
Efficiency Three-Phase

Product code : 14300942

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

Rated current	: 11.7 A	Moment of inertia (J)	: 0.0168 kgm <sup>2</sup>
LRC	: 8.5	Duty cycle	: S6
Rated torque	: 4.23 kgfm	Insulation class	: F
Locked rotor torque	: 459 %	Service factor	: 1.15
Breakdown torque	: 450 %	Temperature rise	: 80 K
Rated speed	: 1715 rpm	Design	: N

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Performed by		Page 2 / 2Revision		
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