

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 14984959

Frame	: 80S/MS	Locked rotor time	: 16s (cold) 9s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S6
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 9.49-8.58/4.29 A	Protection degree	: IP54
L. R. Amperes	: 69.3-62.6/31.3 A	Cooling method	: IC411 - TEFC
LRC	: 7.3	Mounting	: B3R(D)
No load current	: 4.55-4.11/2.06 A	Rotation ¹	: CW
Rated speed	: 3500 rpm	Noise level ²	: 62.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 0.622 kgfm	Approx. weight ³	: 38.6 kg
Locked rotor torque	: 330 %		
Breakdown torque	: 370 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0032 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	76.0	79.5	80.5	Max. traction	: 29 kgf
Power Factor	0.65	0.75	0.80	Max. compression	: 67 kgf

	Drive end	Non drive end
Bearing type	: 6307 ZZ	: 6207 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				
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Date	29/10/2024			

Page 1 / 2
Revision

LOAD PERFORMANCE CURVE

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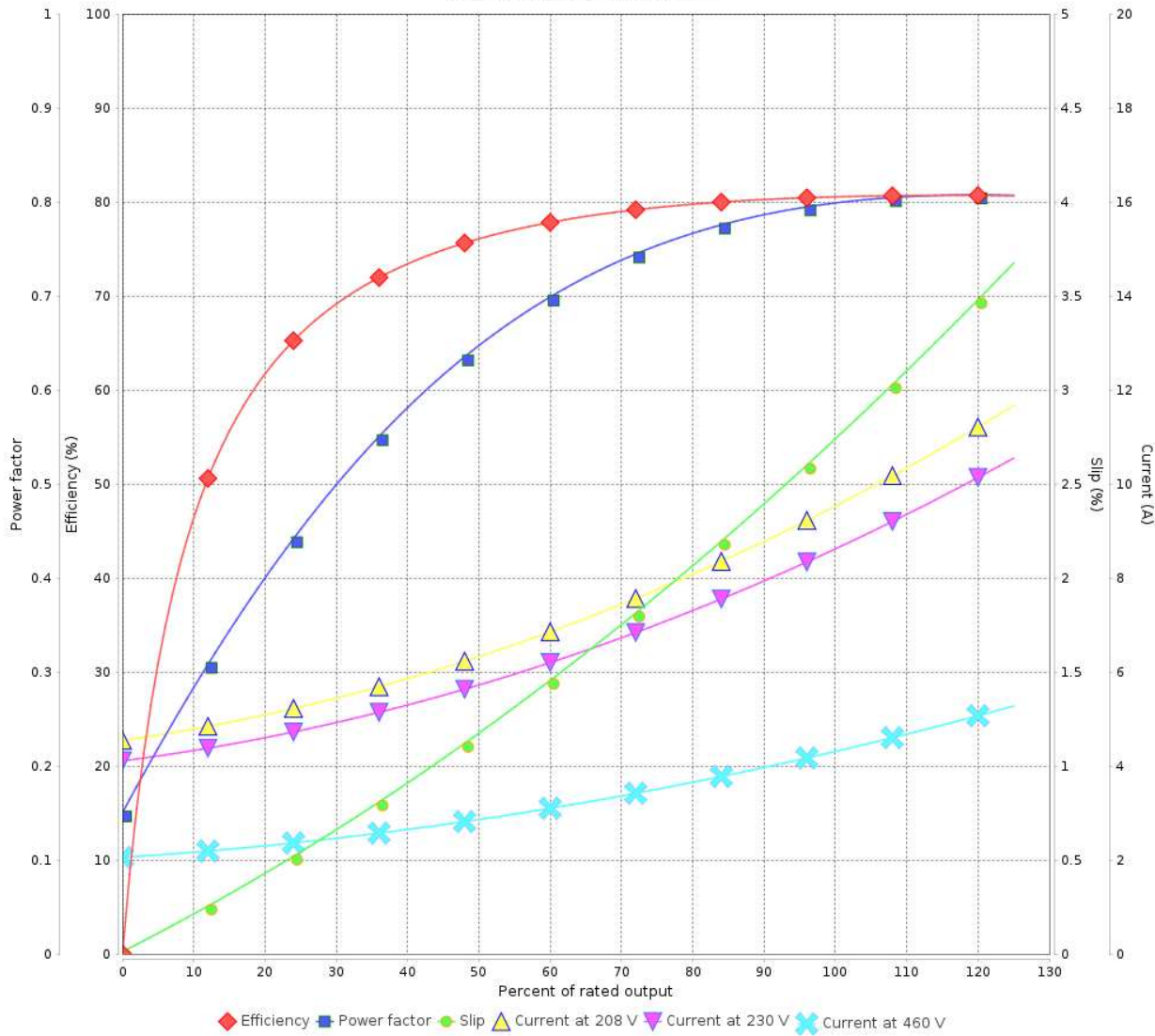


Customer :

Product line : Saw Arbor Motor Standard
Efficiency Three-Phase

Product code : 14984959

LOAD PERFORMANCE CURVE



Performance : 208-230/460 V 60 Hz 2P

Rated current : 9.49-8.58/4.29 A
LRC : 7.3
Rated torque : 0.622 kgfm
Locked rotor torque : 330 %
Breakdown torque : 370 %
Rated speed : 3500 rpm

Moment of inertia (J) : 0.0032 kgm²
Duty cycle : S6
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : N

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Performed by				Page	Revision
Checked by				2 / 2	
Date					

