

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 14180603

Frame	: 90L/MS	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 22.4-20.3/10.1 A	Protection degree	: IP54
L. R. Amperes	: 184-166/83.1 A	Cooling method	: IC411 - TEFC
LRC	: 8.2	Mounting	: B3R(D)
No load current	: 11.1-10.0/5.02 A	Rotation ¹	: CCW
Rated speed	: 1730 rpm	Noise level ²	: 55.0 dB(A)
Slip	: 3.89 %	Starting method	: Direct On Line
Rated torque	: 3.15 kgfm	Approx. weight ³	: 75.3 kg
Locked rotor torque	: 370 %		
Breakdown torque	: 400 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0140 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	83.5	85.0	85.3	Max. traction	: 276 kgf
Power Factor	0.60	0.74	0.80	Max. compression	: 352 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		
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LOAD PERFORMANCE CURVE

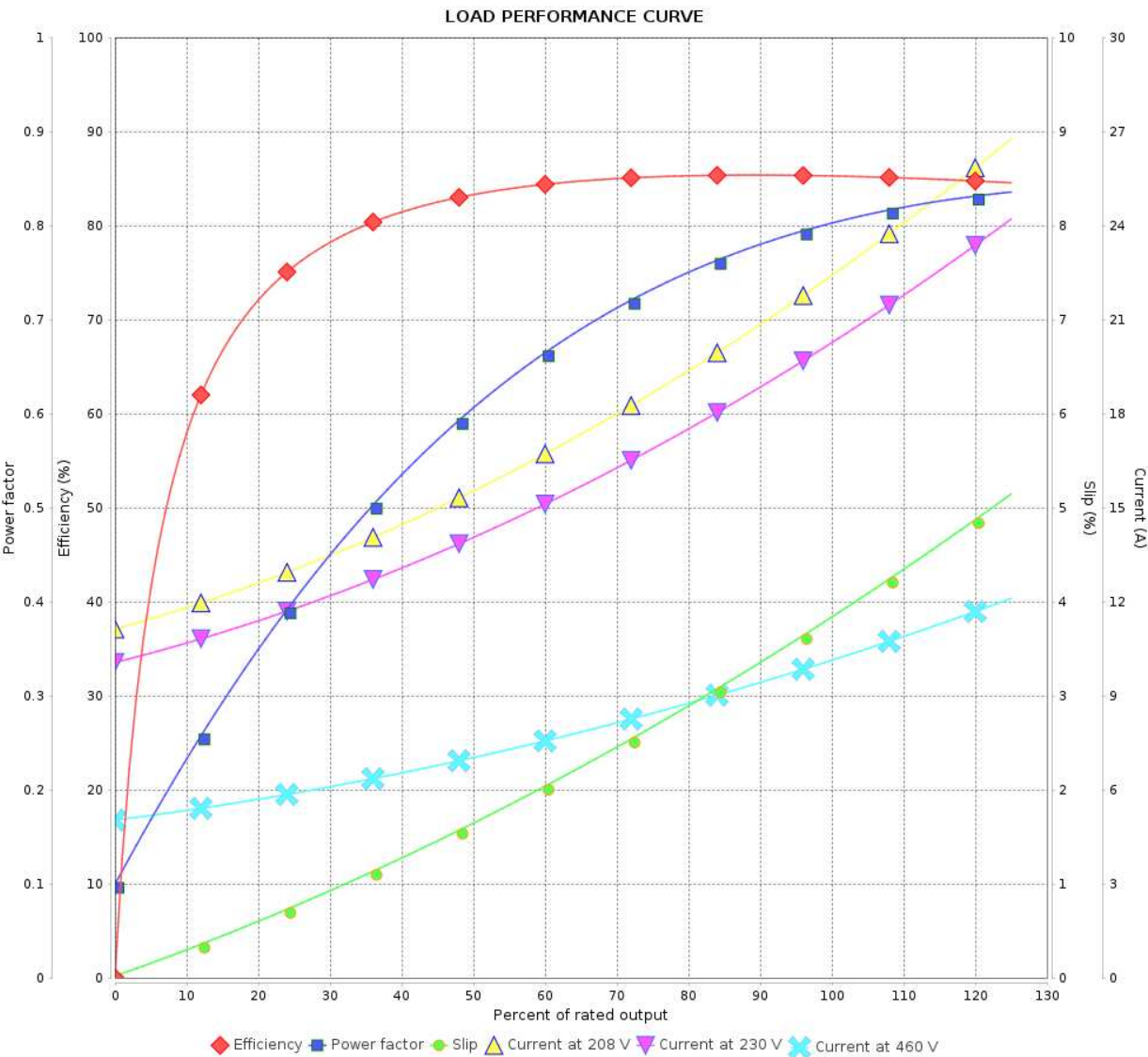
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard
Efficiency Three-Phase

Product code : 14180603



Performance : 208-230/460 V 60 Hz 4P

Rated current : 22.4-20.3/10.1 A
LRC : 8.2
Rated torque : 3.15 kgfm
Locked rotor torque : 370 %
Breakdown torque : 400 %
Rated speed : 1730 rpm

Moment of inertia (J) : 0.0140 kgm²
Duty cycle : S6
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : N

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