

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 14370797

Frame	: 90L/MS	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 10 HP (7.5 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	: 27.2-24.6/12.3 A	Protection degree	: IP54
L. R. Amperes	: 236-214/107 A	Cooling method	: IC411 - TEFC
LRC	: 8.7	Mounting	: B3R(D)
No load current	: 9.94-8.99/4.50 A	Rotation <sup>1</sup>	: CW
Rated speed	: 3480 rpm	Noise level <sup>2</sup>	: 68.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 2.09 kgfm	Approx. weight <sup>3</sup>	: 76.2 kg
Locked rotor torque	: 400 %		
Breakdown torque	: 420 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0140 kgm <sup>2</sup>		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	82.0	84.5	85.0	Max. traction	: 180 kgf
Power Factor	0.77	0.86	0.90	Max. compression	: 257 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.

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# LOAD PERFORMANCE CURVE

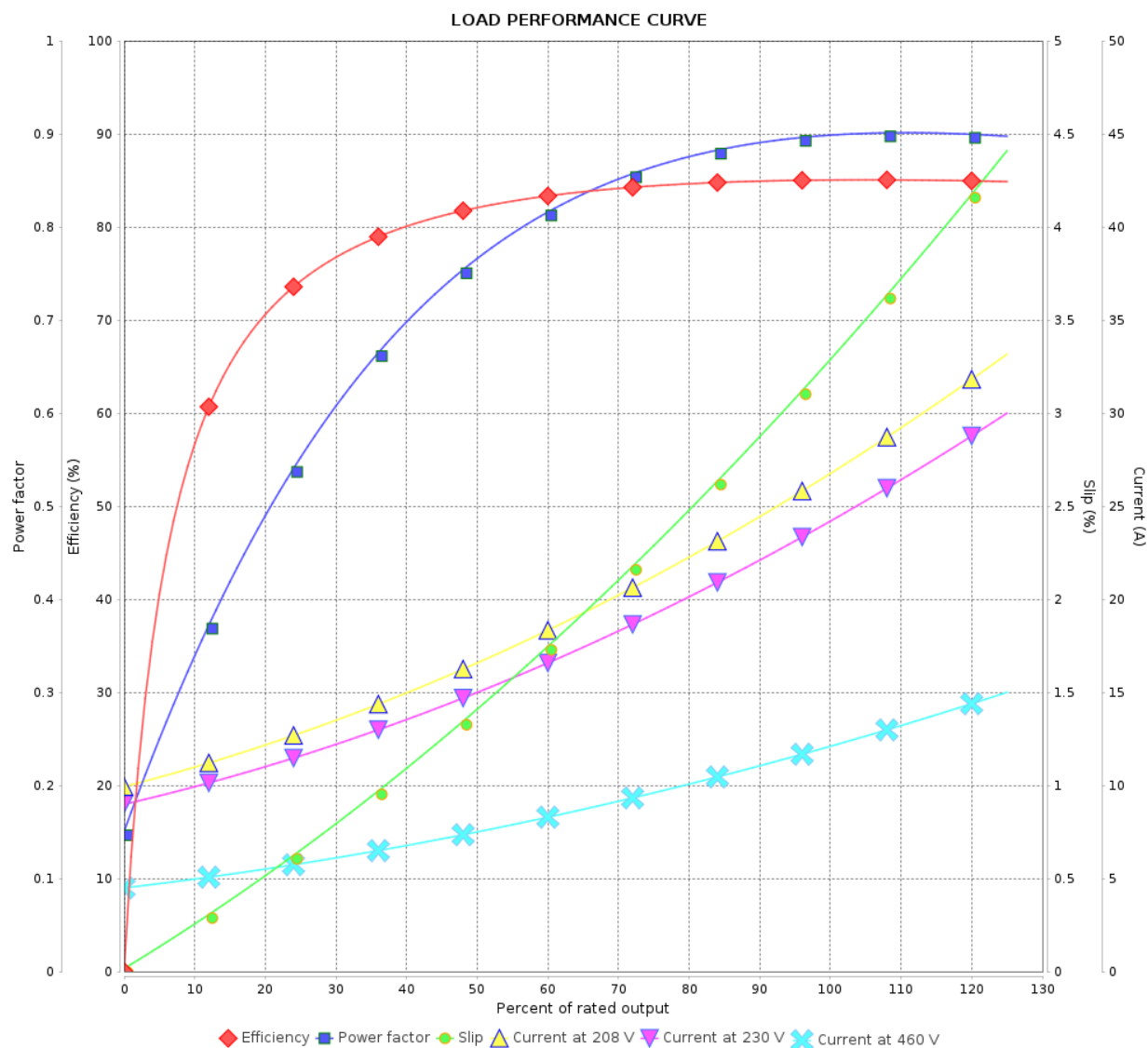
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard  
Efficiency Three-Phase

Product code : 14370797



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

Rated current : 27.2-24.6/12.3 A  
LRC : 8.7  
Rated torque : 2.09 kgfm  
Locked rotor torque : 400 %  
Breakdown torque : 420 %  
Rated speed : 3480 rpm

Moment of inertia (J) : 0.0140 kgm<sup>2</sup>  
Duty cycle : S6  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : N

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