

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 12214391

Frame	: 80M/MS	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 14.7-13.3/6.65 A	Protection degree	: IP54
L. R. Amperes	: 118-106/53.2 A	Cooling method	: IC411 - TEFC
LRC	: 8.0	Mounting	: B3R(D)
No load current	: 6.35-5.74/2.87 A	Rotation <sup>1</sup>	: CCW
Rated speed	: 3470 rpm	Noise level <sup>2</sup>	: 62.0 dB(A)
Slip	: 3.61 %	Starting method	: Direct On Line
Rated torque	: 1.05 kgfm	Approx. weight <sup>3</sup>	: 45.1 kg
Locked rotor torque	: 340 %		
Breakdown torque	: 409 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0041 kgm <sup>2</sup>		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	81.2	82.0	84.5	85.0	Max. traction	: 67 kgf
Power Factor	0.42	0.66	0.77	0.82	Max. compression	: 112 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.

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Date	14/01/2024		1 / 2	

# LOAD PERFORMANCE CURVE

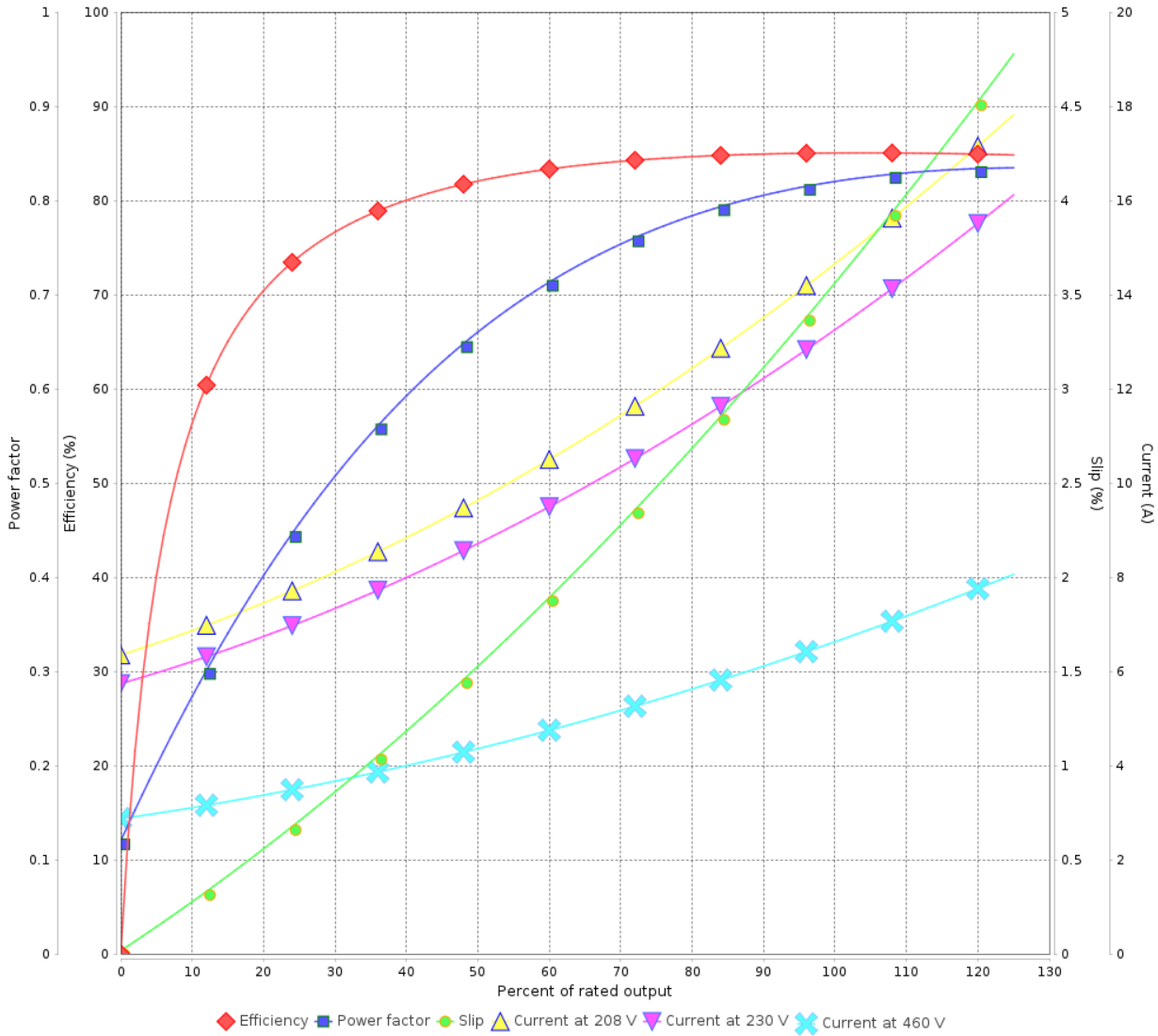
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 12214391

LOAD PERFORMANCE CURVE



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

Rated current : 14.7-13.3/6.65 A  
 LRC : 8.0  
 Rated torque : 1.05 kgfm  
 Locked rotor torque : 340 %  
 Breakdown torque : 409 %  
 Rated speed : 3470 rpm

Moment of inertia (J) : 0.0041 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

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