

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: Saw Arbor Motor Standard Efficiency Three-Phase		Product code : 14212886		
Frame	: 80M/MS	Locked rotor time	: 12s (cold) 7s (hot)			
Output	: 5 HP (3.7 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	: 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>	: CW			
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>	: 45.7 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	50%	75%	100%	Foundation loads		
Efficiency (%)	82.0	84.5	85.0	Max. traction : 67 kgf		
Power Factor	0.66	0.77	0.82	Max. compression : 113 kgf		
		<u>Drive end</u>		<u>Non drive end</u>		
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
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Checked by					Page	Revision
Date	15/01/2024				1 / 2	

# LOAD PERFORMANCE CURVE

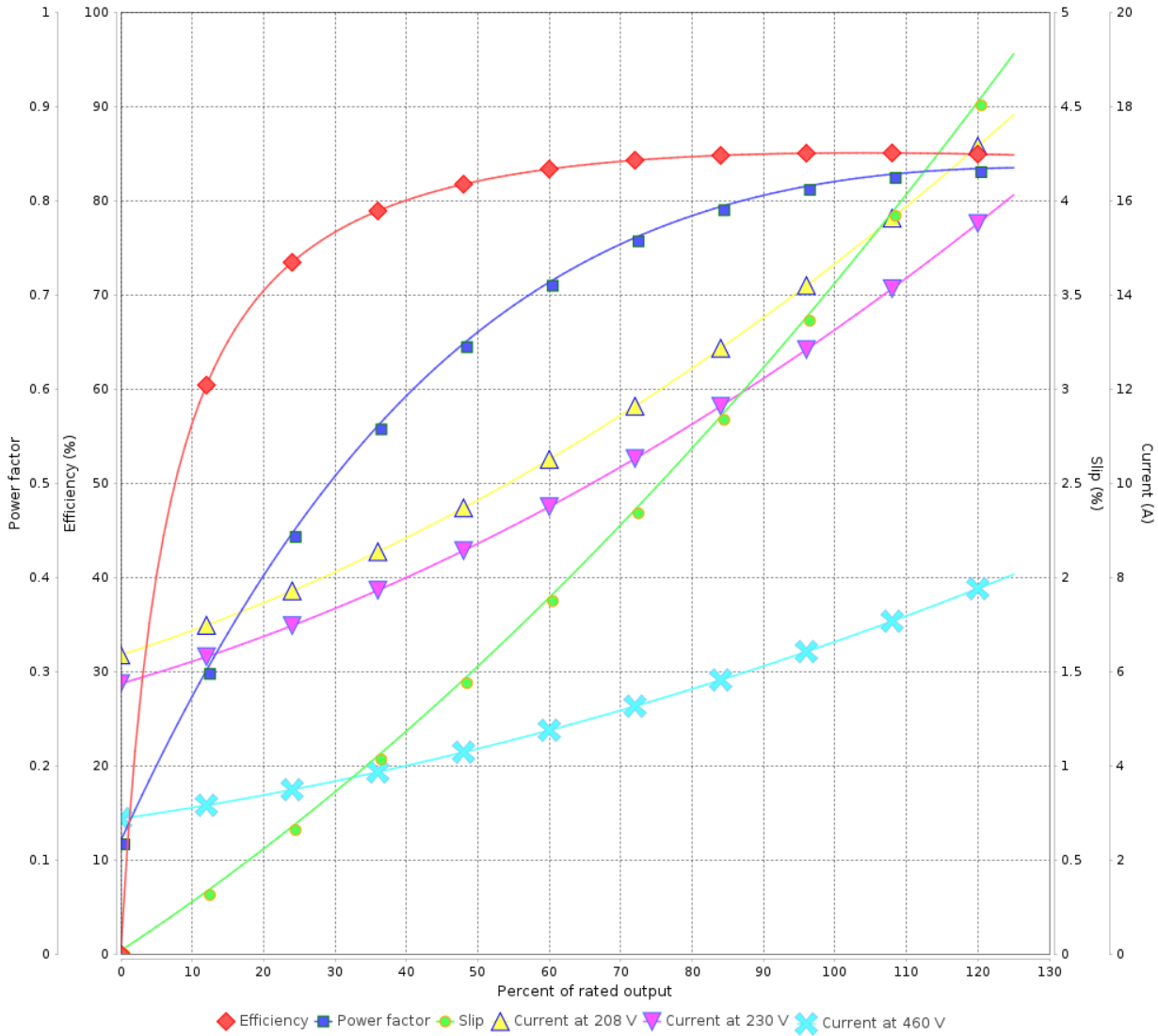
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Saw Arbor Motor Standard Efficiency Three-Phase      Product code : 14212886

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 : S6  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

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