

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: Saw Arbor Motor Standard Efficiency Three-Phase		Product code : 14212884	
Frame	: 80L/MS	Locked rotor time	: 9s (cold) 5s (hot)		
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K		
Poles	: 2	Duty cycle	: S6		
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C		
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.		
Rated current	: 7.81 A	Protection degree	: IP54		
L. R. Amperes	: 71.8 A	Cooling method	: IC411 - TEFC		
LRC	: 9.2	Mounting	: B3R(D)		
No load current	: 3.52 A	Rotation <sup>1</sup>	: CW		
Rated speed	: 3490 rpm	Noise level <sup>2</sup>	: 62.0 dB(A)		
Slip	: 3.06 %	Starting method	: Direct On Line		
Rated torque	: 1.56 kgfm	Approx. weight <sup>3</sup>	: 55.4 kg		
Locked rotor torque	: 400 %				
Breakdown torque	: 459 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0061 kgm <sup>2</sup>				
Design	: N				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	85.2	87.0	87.4	Max. traction : 123 kgf	
Power Factor	0.64	0.75	0.81	Max. compression : 178 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.		
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# LOAD PERFORMANCE CURVE

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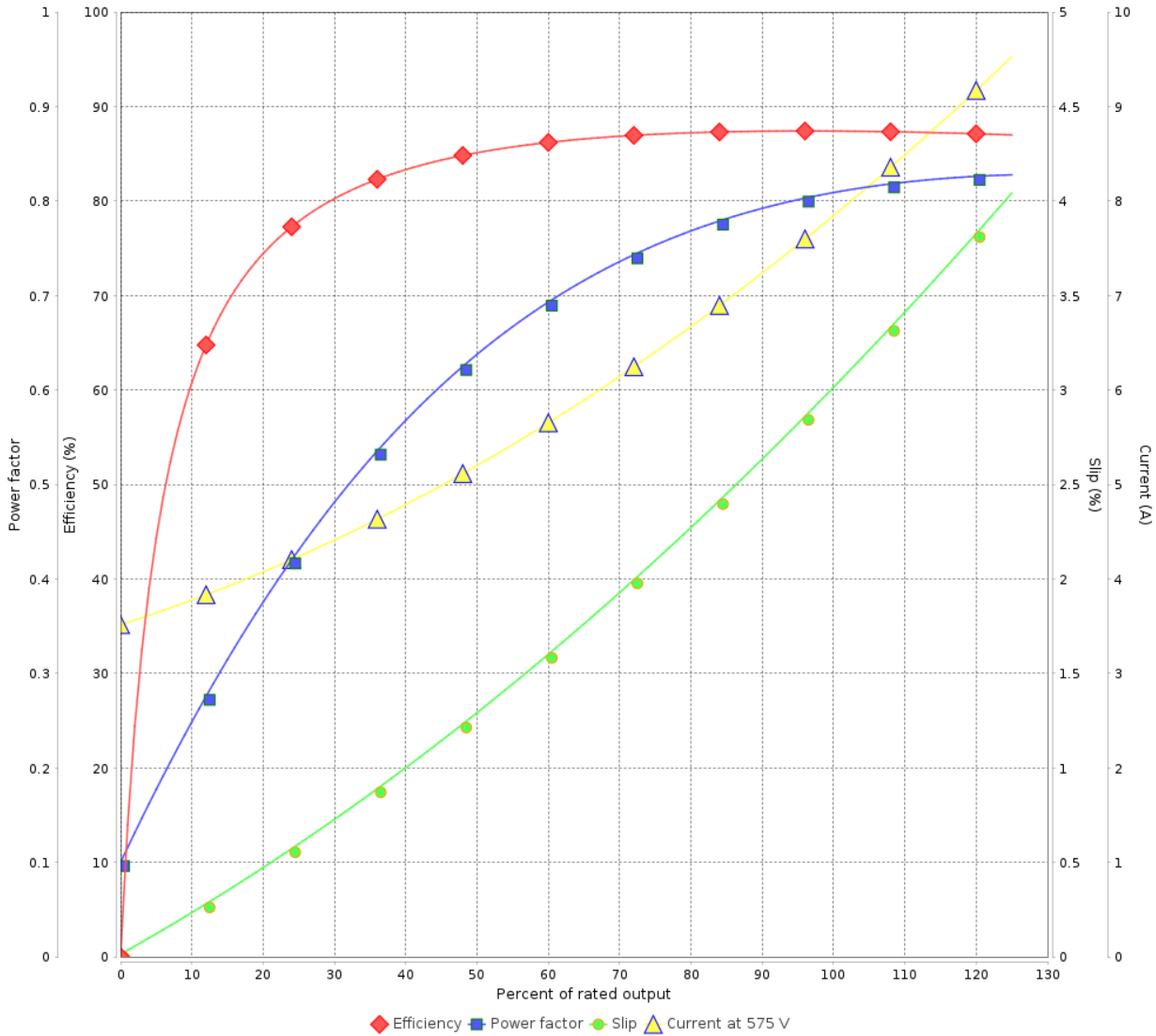


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Product line : Saw Arbor Motor Standard  
Efficiency Three-Phase

Product code : 14212884

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current : 7.81 A  
LRC : 9.2  
Rated torque : 1.56 kgfm  
Locked rotor torque : 400 %  
Breakdown torque : 459 %  
Rated speed : 3490 rpm

Moment of inertia (J) : 0.0061 kgm<sup>2</sup>  
Duty cycle : S6  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : N

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