

# 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 <sup>1</sup>	: CCW		
Rated speed	: 1730 rpm	Noise level <sup>2</sup>	: 55.0 dB(A)		
Slip	: 3.89 %	Starting method	: Direct On Line		
Rated torque	: 3.15 kgfm	Approx. weight <sup>3</sup>	: 75.3 kg		
Locked rotor torque	: 370 %				
Breakdown torque	: 400 %				
Insulation class	: F				
Service factor	: 1.00				
Moment of inertia (J)	: 0.0140 kgm <sup>2</sup>				
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	
		<u>Drive end</u>	<u>Non drive end</u>		
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
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# LOAD PERFORMANCE CURVE

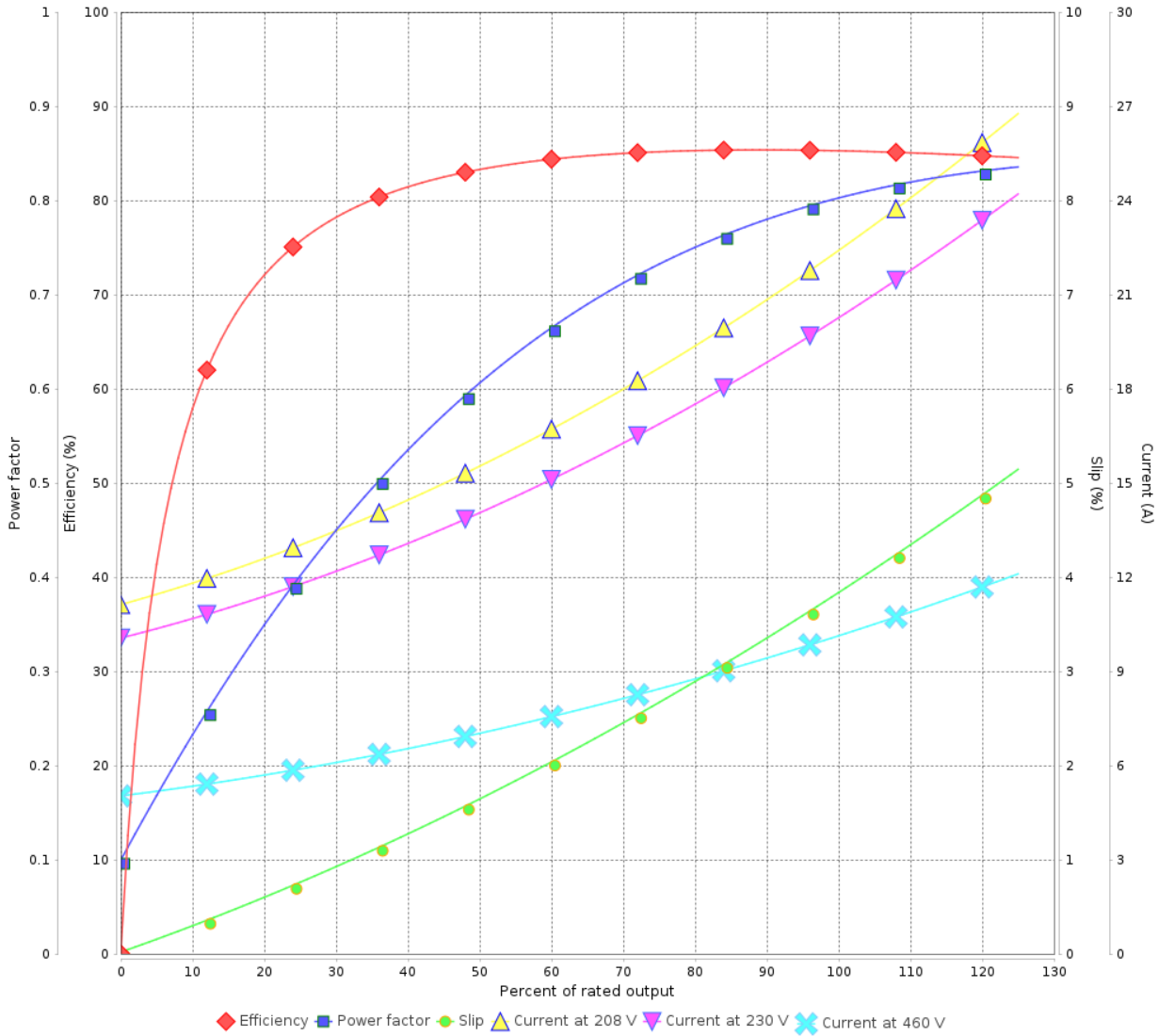
Three Phase Induction Motor - Squirrel Cage



Customer :

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

LOAD PERFORMANCE CURVE



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 kgm<sup>2</sup>  
 Duty cycle : S6  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

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