

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: Close Coupled Pump NEMA Premium Efficiency Three-Phase		Product code : 12032545		
Frame	: 324JP	Locked rotor time	: 50s (cold) 28s (hot)			
Output	: 40 HP (30 kW)	Temperature rise	: 80 K			
Poles	: 4	Duty cycle	: Cont.(S1)			
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C			
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.			
Rated current	: 38.6 A	Protection degree	: IP23			
L. R. Amperes	: 239 A	Cooling method	: IC01 - ODP			
LRC	: 6.2x(Code G)	Mounting	: W-6			
No load current	: 14.8 A	Rotation <sup>1</sup>	: Both (CW and CCW)			
Rated speed	: 1775 rpm	Noise level <sup>2</sup>	: 64.0 dB(A)			
Slip	: 1.39 %	Starting method	: Direct On Line			
Rated torque	: 16.4 kgfm	Approx. weight <sup>3</sup>	: 219 kg			
Locked rotor torque	: 220 %					
Breakdown torque	: 229 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.2551 kgm <sup>2</sup>					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	93.6	94.1	94.1	Max. traction : 364 kgf		
Power Factor	0.68	0.78	0.83	Max. compression : 583 kgf		
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6312 Z C3		6212 Z C3		
Sealing	:	Without Bearing Seal		Without Bearing Seal		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	21 g		13 g		
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

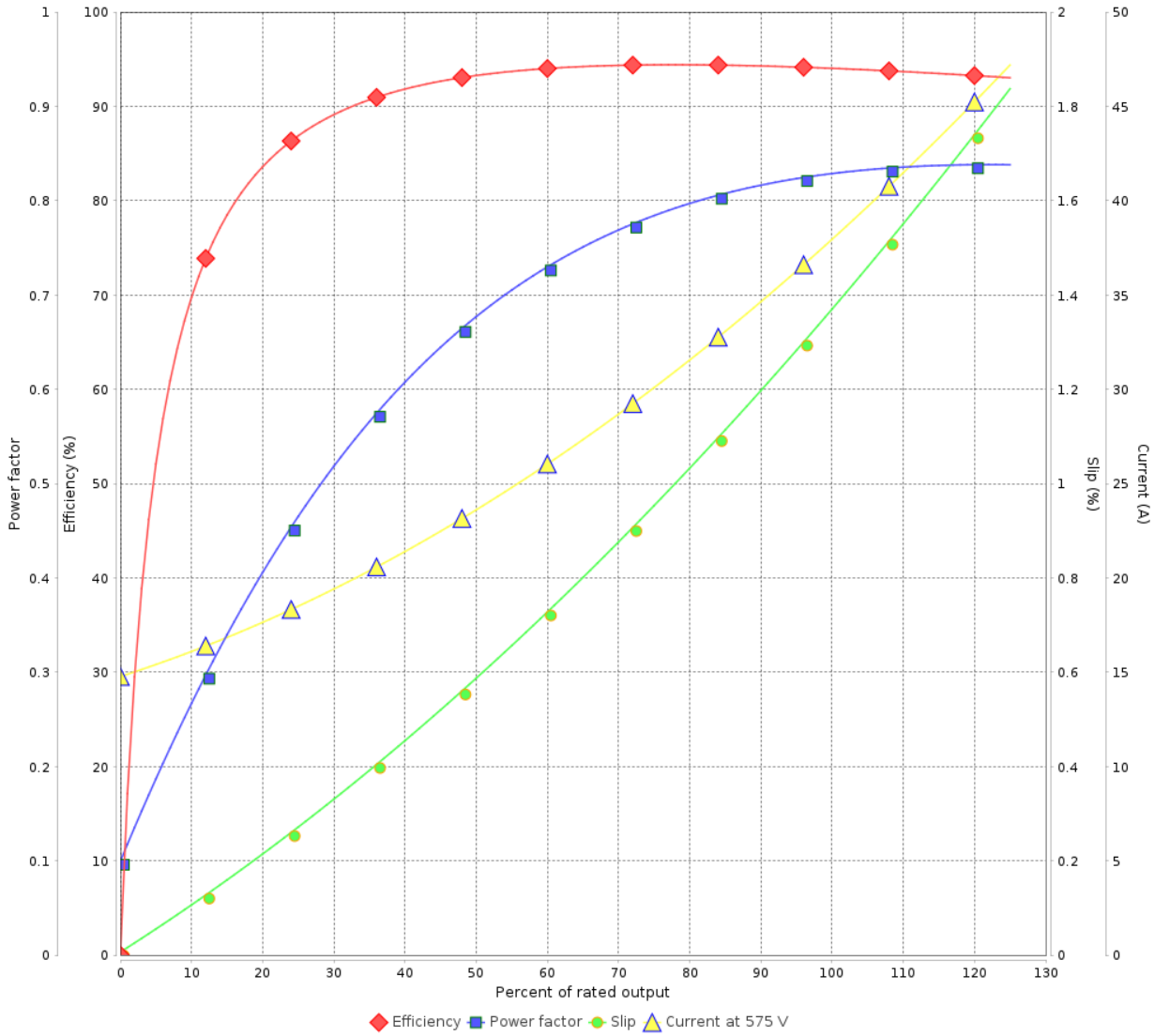


Customer :

Product line : Close Coupled Pump NEMA  
Premium Efficiency Three-Phase

Product code : 12032545

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

Rated current : 38.6 A  
LRC : 6.2  
Rated torque : 16.4 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 229 %  
Rated speed : 1775 rpm

Moment of inertia (J) : 0.2551 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Rev.	Changes Summary	Performed	Checked	Date
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