

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase			Product code : 14579018			
Frame	: 324/6JP			Locked rotor time	: 39s (cold) 22s (hot)	
Output	: 40 HP (30 kW)			Temperature rise	: 80 K	
Poles	: 2			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	: 37.0 A			Protection degree	: IP55	
L. R. Amperes	: 233 A			Cooling method	: IC411 - TEFC	
LRC	: 6.3x(Code G)			Mounting	: F-1	
No load current	: 10.4 A			Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 3560 rpm			Noise level <sup>2</sup>	: 76.0 dB(A)	
Slip	: 1.11 %			Starting method	: VFD	
Rated torque	: 8.15 kgfm			Approx. weight <sup>3</sup>	: 248 kg	
Locked rotor torque	: 250 %					
Breakdown torque	: 240 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.2063 kgm <sup>2</sup>					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	91.7	92.4	92.4	Max. traction	: 122 kgf
Power Factor	0.00	0.80	0.86	0.88	Max. compression	: 370 kgf
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
7.8	5.9	5.1	4.1	2.3	1.5	0.9
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6312 C3		6212 C3		
Sealing	:	V'Ring		V'Ring		
Lubrication interval	:	12000 h		15000 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.		
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	15/01/2024				1 / 2	

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

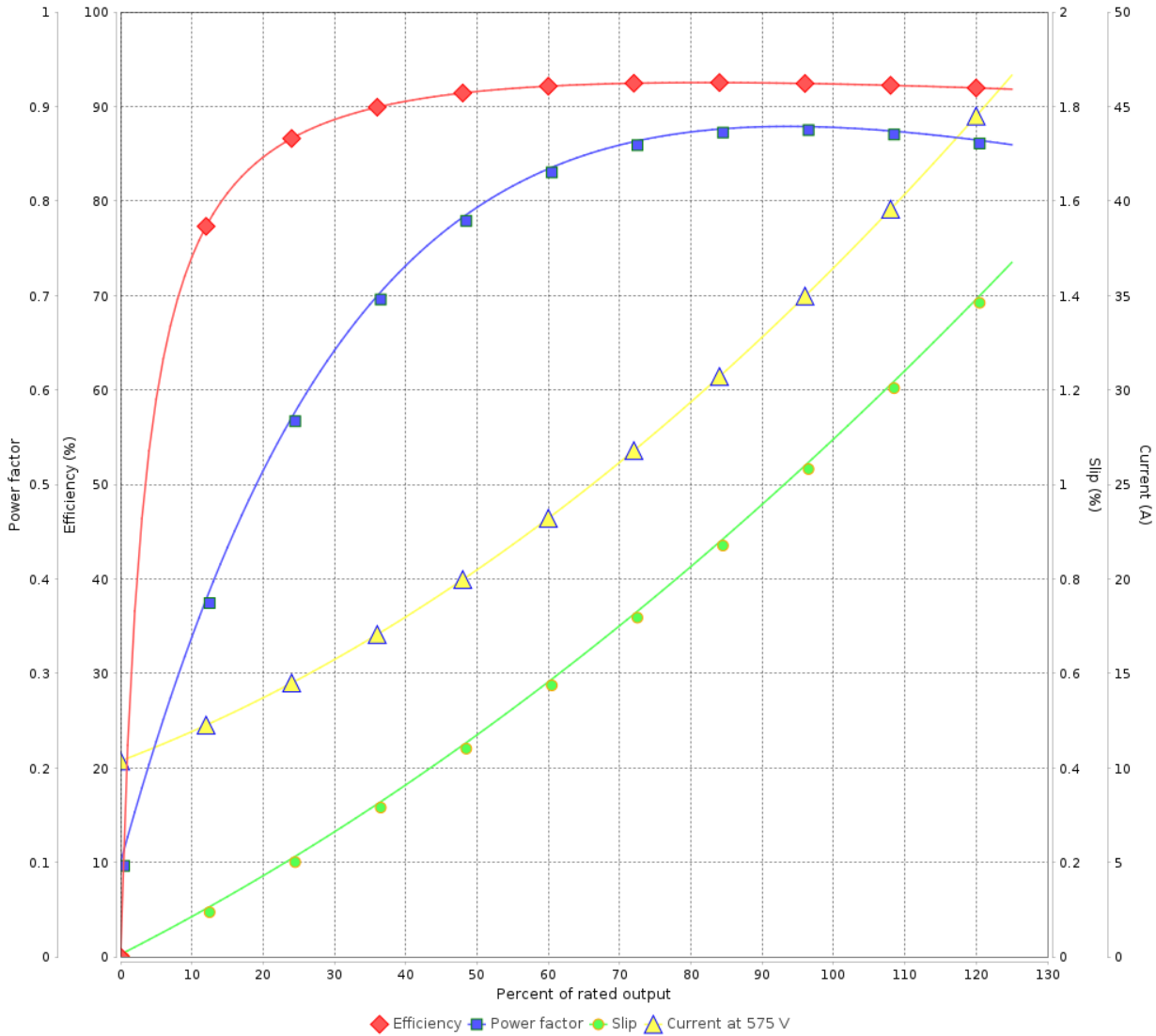


Customer : \_\_\_\_\_

Product line : W22 Close Coupled Pump JP NEMA  
Premium Efficiency Three-Phase

Product code : 14579018

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current : 37.0 A  
LRC : 6.3  
Rated torque : 8.15 kgfm  
Locked rotor torque : 250 %  
Breakdown torque : 240 %  
Rated speed : 3560 rpm

Moment of inertia (J) : 0.2063 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

Rev.	Changes Summary	Performed	Checked	Date
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