

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : _____																
Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase			Product code : 12060695													
Frame : 324JM Output : 50 HP (37 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 575 V Rated current : 47.3 A L. R. Amperes : 303 A LRC : 6.4x(Code G) No load current : 16.4 A Rated speed : 3565 rpm Slip : 0.97 % Rated torque : 10.2 kgfm Locked rotor torque : 229 % Breakdown torque : 240 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1615 kgm² Design : B	Locked rotor time : 50s (cold) 28s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP23 Cooling method : IC01 - ODP Mounting : W-6 Rotation¹ : Both (CW and CCW) Noise level² : 74.0 dB(A) Starting method : Direct On Line Approx. weight³ : 225 kg															
Output 50% 75% 100%			Foundation loads													
Efficiency (%) 92.4 93.6 93.6			Max. traction : 195 kgf													
Power Factor 0.74 0.82 0.84			Max. compression : 420 kgf													

Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :		<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;"><u>Drive end</u></td> <td style="width: 50%; text-align: center;"><u>Non drive end</u></td> </tr> <tr> <td style="text-align: center;">6312 Z C3</td> <td style="text-align: center;">6212 Z C3</td> </tr> <tr> <td style="text-align: center;">Without Bearing Seal</td> <td style="text-align: center;">Without Bearing Seal</td> </tr> <tr> <td style="text-align: center;">9829 h</td> <td style="text-align: center;">12143 h</td> </tr> <tr> <td style="text-align: center;">21 g</td> <td style="text-align: center;">13 g</td> </tr> <tr> <td colspan="2" style="text-align: center;">Mobil Polyrex EM</td> </tr> </table>			<u>Drive end</u>	<u>Non drive end</u>	6312 Z C3	6212 Z C3	Without Bearing Seal	Without Bearing Seal	9829 h	12143 h	21 g	13 g	Mobil Polyrex EM	
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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				Page 1 / 2	Revision											
Checked by																
Date		14/01/2024														

LOAD PERFORMANCE CURVE

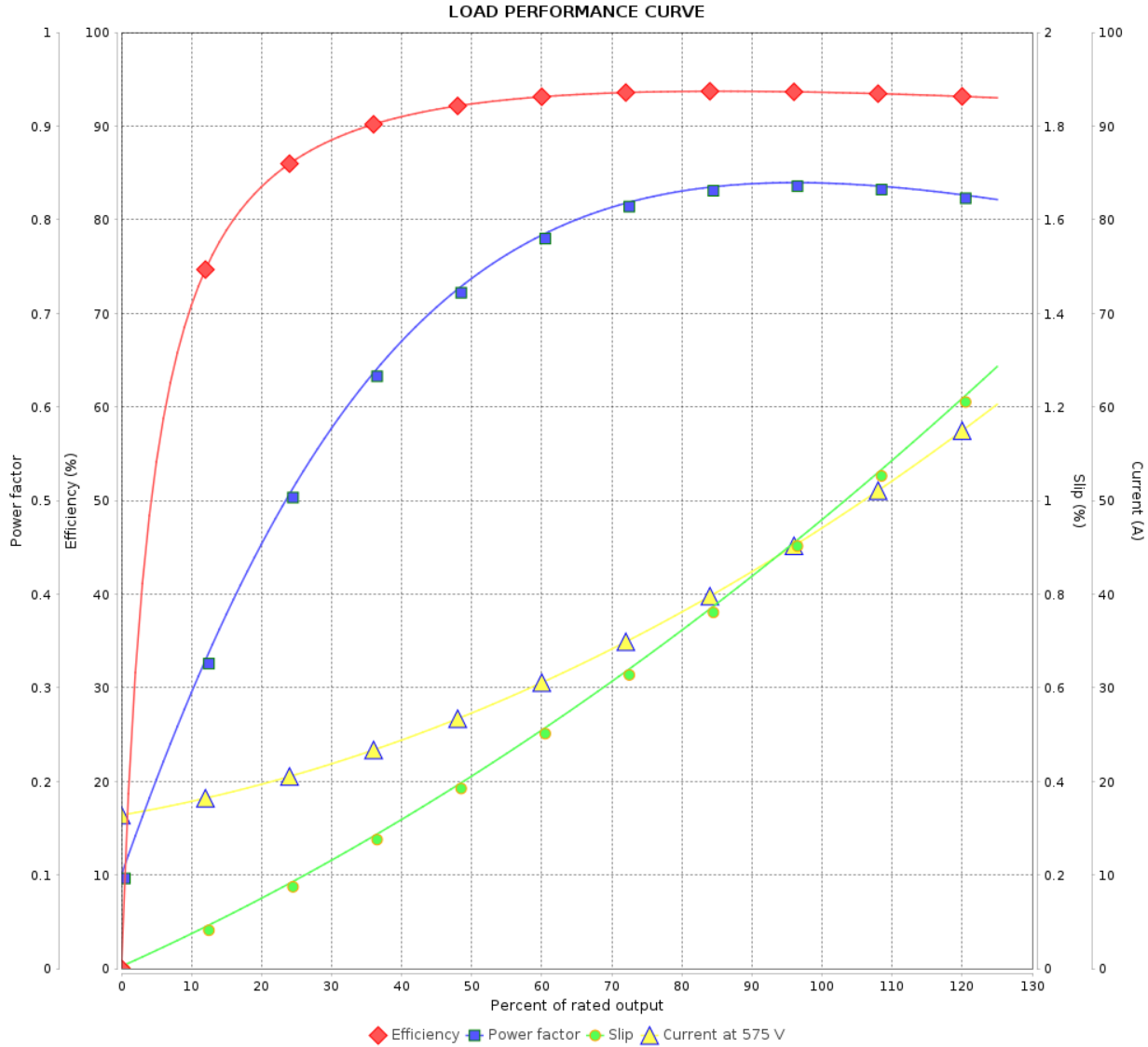
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12060695



Performance : 575 V 60 Hz 2P

Rated current : 47.3 A
LRC : 6.4
Rated torque : 10.2 kgfm
Locked rotor torque : 229 %
Breakdown torque : 240 %
Rated speed : 3565 rpm

Moment of inertia (J) : 0.1615 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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