

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :																				
Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase			Product code : 11168078																	
Frame : 286JM Output : 40 HP (30 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 575 V Rated current : 37.7 A L. R. Amperes : 241 A LRC : 6.4x(Code G) No load current : 12.8 A Rated speed : 3550 rpm Slip : 1.39 % Rated torque : 8.18 kgfm Locked rotor torque : 250 % Breakdown torque : 260 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.0993 kgm ² Design : B			Locked rotor time : 41s (cold) 23s (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 : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 73.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 165 kg																	
<table border="1"> <tr> <td>Output</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>100%</td> </tr> <tr> <td>Efficiency (%)</td> <td>91.5</td> <td>91.7</td> <td>93.0</td> <td>93.0</td> </tr> <tr> <td>Power Factor</td> <td>0.49</td> <td>0.74</td> <td>0.83</td> <td>0.86</td> </tr> </table>			Output	25%	50%	75%	100%	Efficiency (%)	91.5	91.7	93.0	93.0	Power Factor	0.49	0.74	0.83	0.86	Foundation loads Max. traction : 222 kgf Max. compression : 386 kgf		
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Efficiency (%)	91.5	91.7	93.0	93.0																
Power Factor	0.49	0.74	0.83	0.86																
Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :		<u>Drive end</u> 6311 Z C3 Without Bearing Seal 20000 h 18 g Mobil Polyrex EM		<u>Non drive end</u> 6211 Z C3 Without Bearing Seal 20000 h 11 g																
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	14/01/2024				1 / 2															

LOAD PERFORMANCE CURVE

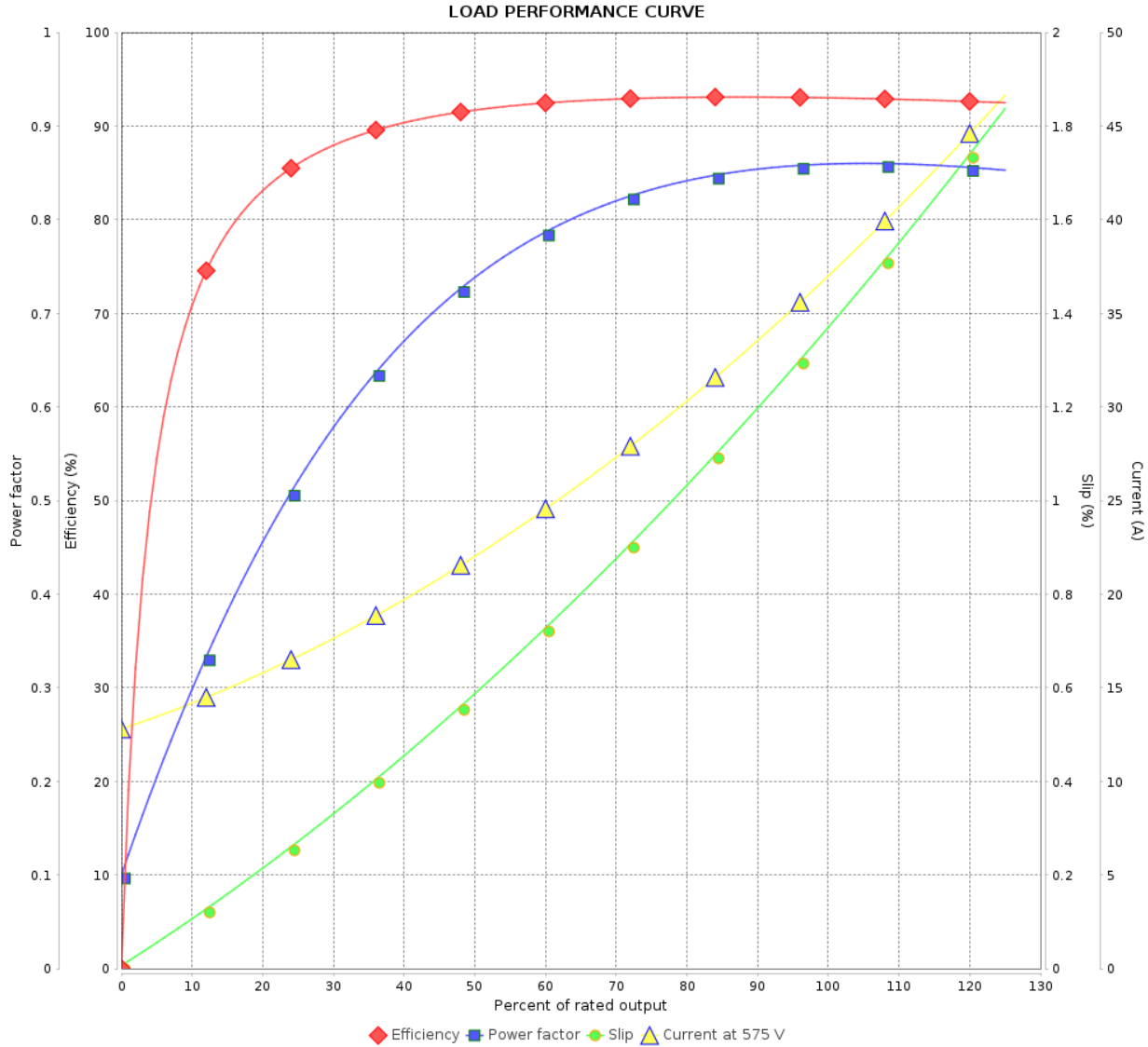
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 11168078



Performance : 575 V 60 Hz 2P

Rated current : 37.7 A
 LRC : 6.4
 Rated torque : 8.18 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 260 %
 Rated speed : 3550 rpm

Moment of inertia (J) : 0.0993 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		2 / 2		
Date		14/01/2024		