

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :																	
Product line		: ODP NEMA Premium Efficiency Three-Phase		Product code : 10684369													
Frame : 404/5T Output : 100 HP (75 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 575 V Rated current : 90.4 A L. R. Amperes : 606 A LRC : 6.7x(Code G) No load current : 33.6 A Rated speed : 1780 rpm Slip : 1.11 % Rated torque : 40.8 kgfm Locked rotor torque : 229 % Breakdown torque : 270 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.9623 kgm ² Design : B			Locked rotor time : 18s (cold) 10s (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 : 69.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 451 kg														
<table border="1"> <tr> <td>Output</td> <td>50%</td> <td>75%</td> <td>100%</td> </tr> <tr> <td>Efficiency (%)</td> <td>95.0</td> <td>95.4</td> <td>95.4</td> </tr> <tr> <td>Power Factor</td> <td>0.77</td> <td>0.84</td> <td>0.87</td> </tr> </table>				Output	50%	75%	100%	Efficiency (%)	95.0	95.4	95.4	Power Factor	0.77	0.84	0.87	Foundation loads Max. traction : 858 kgf Max. compression : 1308 kgf	
Output	50%	75%	100%														
Efficiency (%)	95.0	95.4	95.4														
Power Factor	0.77	0.84	0.87														
Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :		<u>Drive end</u> NU-316 C3 Without Bearing Seal 20000 h 34 g Mobil Polyrex EM		<u>Non drive end</u> 6314 C3 Without Bearing Seal 20000 h 27 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	05/02/2024				1 / 2												

LOAD PERFORMANCE CURVE

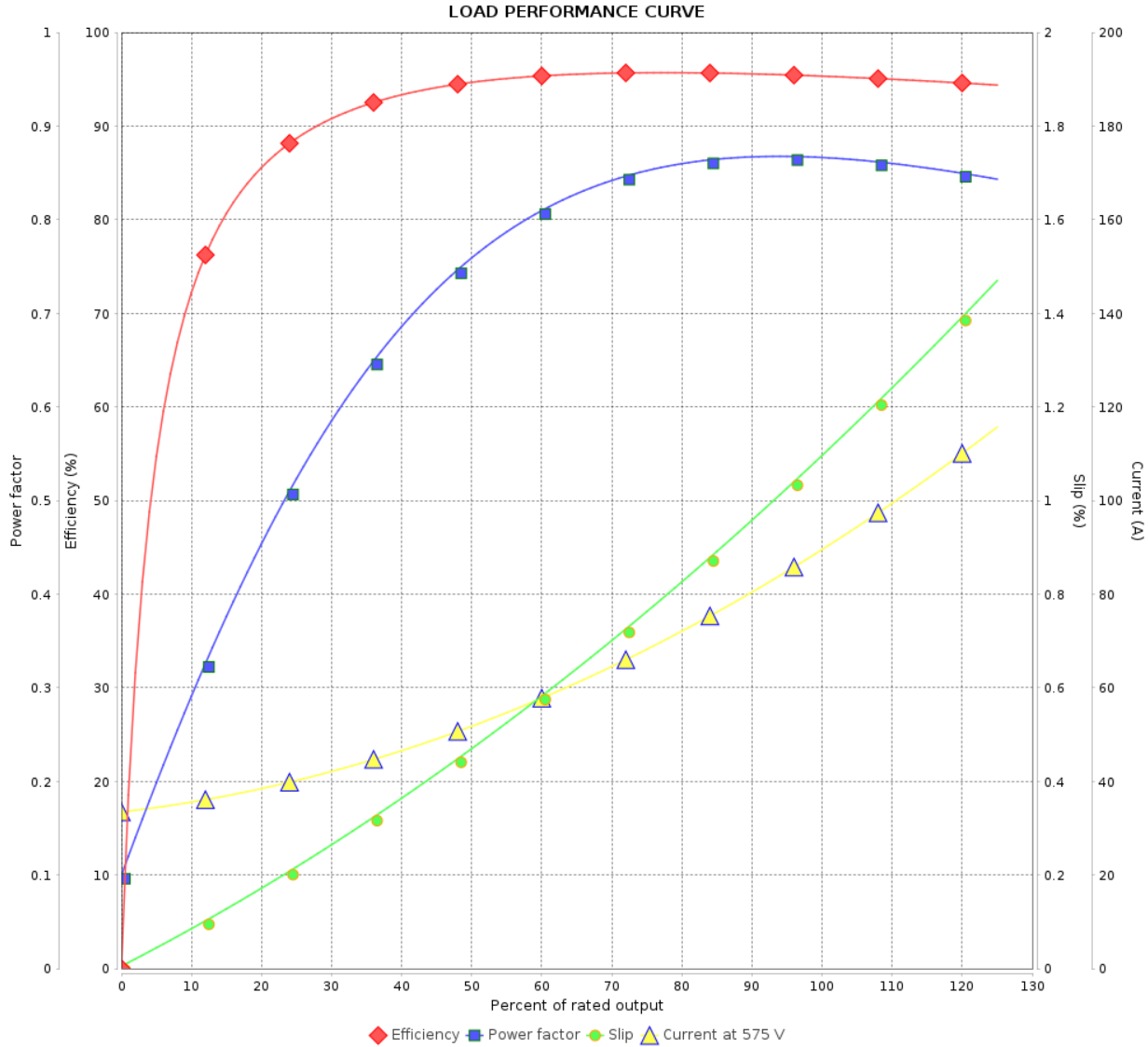
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Product code : 10684369



Performance : 575 V 60 Hz 4P

Rated current : 90.4 A
 LRC : 6.7
 Rated torque : 40.8 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 0.9623 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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