

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :																				
Product line : W40 NEMA Premium Efficiency Three-Phase			Product code : 14891768																	
Frame : 404/5T Output : 75 HP (55 kW) Poles : 6 Frequency : 60 Hz Rated voltage : 575 V Rated current : 68.7 A L. R. Amperes : 460 A LRC : 6.7x(Code G) No load current : 24.0 A Rated speed : 1185 rpm Slip : 1.25 % Rated torque : 45.9 kgfm Locked rotor torque : 240 % Breakdown torque : 270 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.33 kgm ² Design : B			Locked rotor time : 19s (cold) 11s (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 : 68.0 dB(A) Starting method : VFD Approx. weight ³ : 457 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>0.000</td> <td>94.1</td> <td>94.5</td> <td>94.5</td> </tr> <tr> <td>Power Factor</td> <td>0.00</td> <td>0.72</td> <td>0.81</td> <td>0.85</td> </tr> </table>			Output	25%	50%	75%	100%	Efficiency (%)	0.000	94.1	94.5	94.5	Power Factor	0.00	0.72	0.81	0.85	Foundation loads Max. traction : 992 kgf Max. compression : 1449 kgf		
Output	25%	50%	75%	100%																
Efficiency (%)	0.000	94.1	94.5	94.5																
Power Factor	0.00	0.72	0.81	0.85																
		<u>Drive end</u>		<u>Non drive end</u>																
Bearing type :		6316 C3		6212 Z C3																
Sealing :		Without Bearing Seal		Without Bearing Seal																
Lubrication interval :		20000 h		20000 h																
Lubricant amount :		34 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

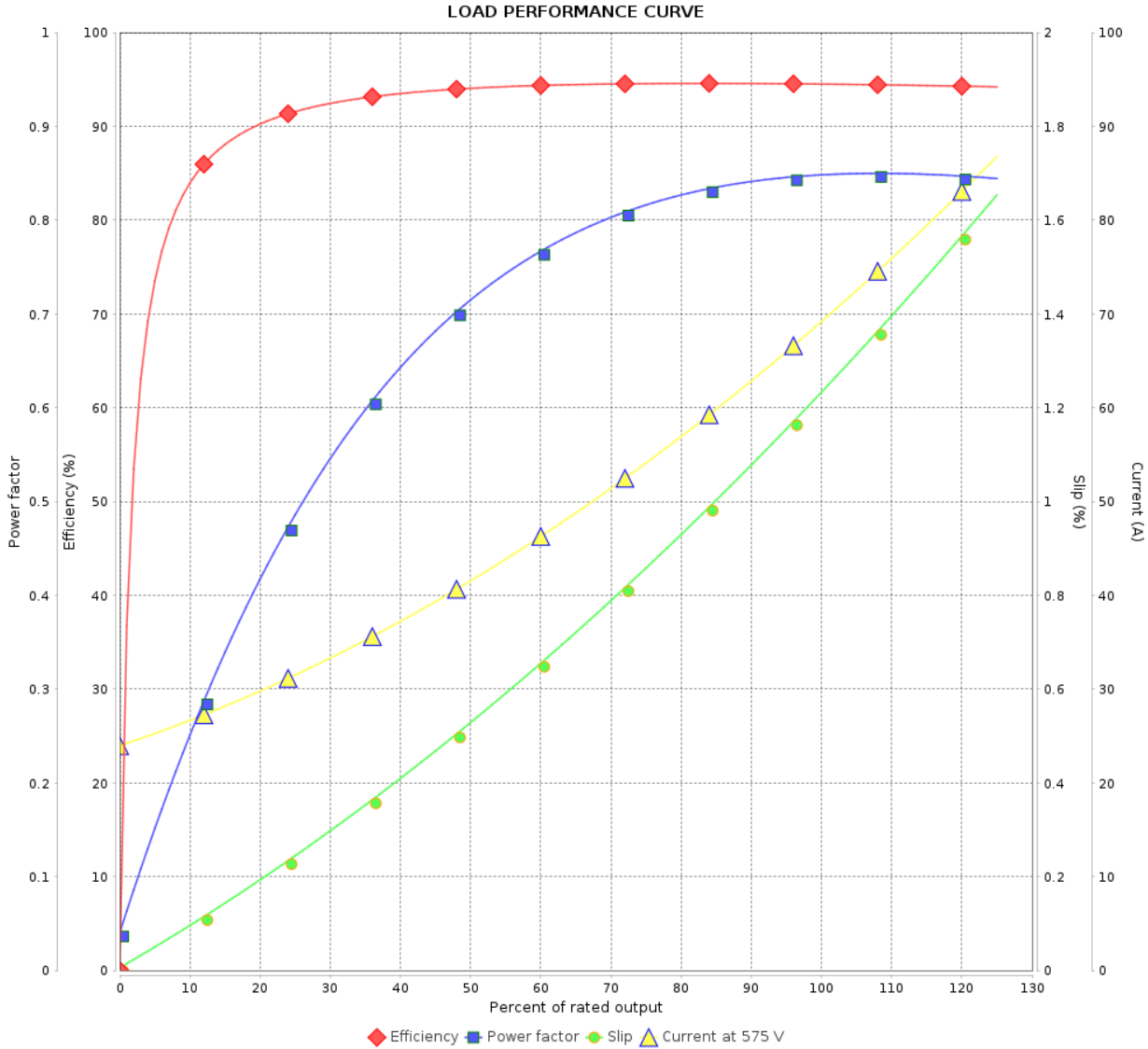
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14891768



Performance : 575 V 60 Hz 6P

Rated current : 68.7 A
 LRC : 6.7
 Rated torque : 45.9 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 1185 rpm

Moment of inertia (J) : 1.33 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 2 / 2	Revision
Checked by				
Date	15/01/2024			