

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 14284838				
Frame : 404/5TC Output : 100 HP (75 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 575 V Rated current : 91.8 A L. R. Amperes : 624 A LRC : 6.8x(Code G) No load current : 29.6 A Rated speed : 1780 rpm Slip : 1.11 % Rated torque : 40.8 kgfm Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.9245 kgm ² Design : B	Locked rotor time : 21s (cold) 12s (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 : 442 kg					
Output	25%	50%	75%	100%	Foundation loads Max. traction : 782 kgf Max. compression : 1224 kgf	
Efficiency (%)	94.9	95.0	95.4	95.4		
Power Factor	0.50	0.75	0.83	0.86		
		<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

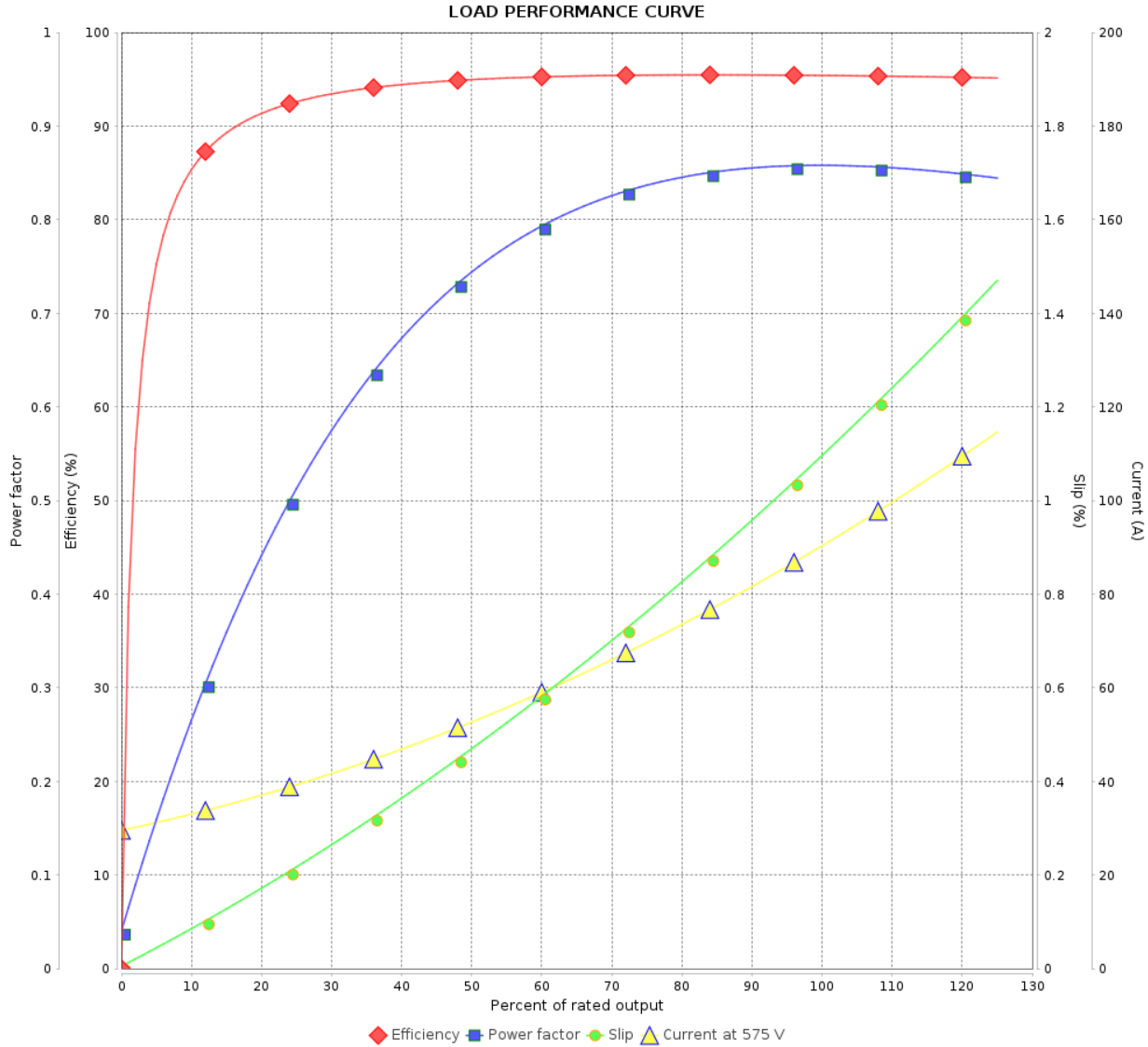
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Product code : 14284838



Performance : 575 V 60 Hz 4P

Rated current : 91.8 A
 LRC : 6.8
 Rated torque : 40.8 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 0.9245 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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