

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : _____					
Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 11360971			
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 : 651 A LRC : 7.2x(Code H) No load current : 31.2 A Rated speed : 1780 rpm Slip : 1.11 % Rated torque : 40.8 kgfm Locked rotor torque : 270 % Breakdown torque : 280 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.11 kgm ² Design : B	Locked rotor time : 23s (cold) 13s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 75.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 550 kg				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.5	95.0	95.4	Max. traction : 848 kgf	
Power Factor	0.72	0.82	0.87	Max. compression : 1398 kgf	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	NU-217 C3	6314 C3		
Sealing	:	Oil Seal	Lip Seal		
Lubrication interval	:	6536 h	9789 h		
Lubricant amount	:	21 g	27 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.		
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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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LOAD PERFORMANCE CURVE

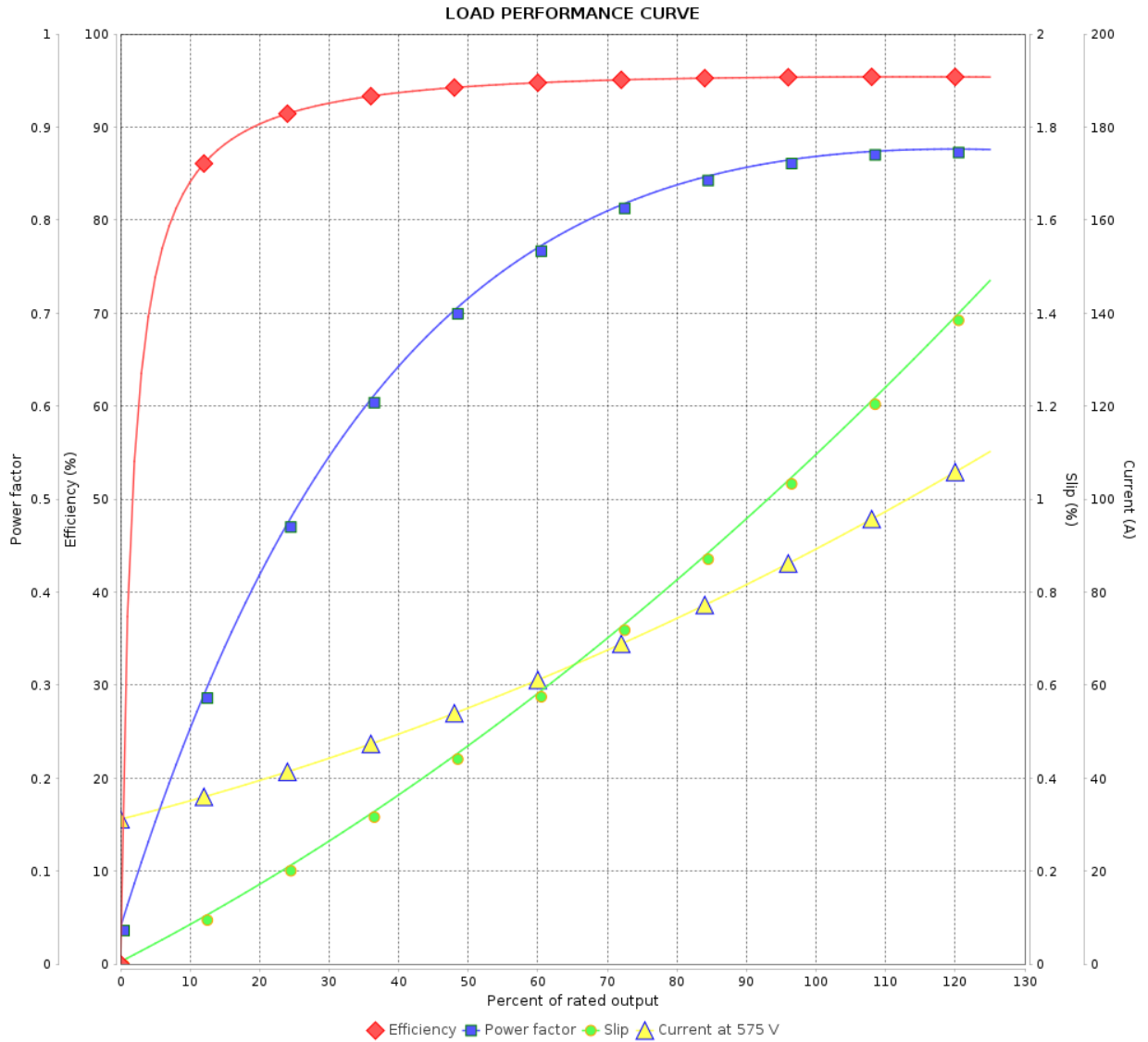
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Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 11360971



Performance : 575 V 60 Hz 4P

Rated current : 90.4 A
 LRC : 7.2
 Rated torque : 40.8 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 280 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 1.11 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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