DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:				
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Ph			12697748
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design		: 364/5TC : 60 HP (45 kW) : 4 : 60 Hz : 575 V : 54.6 A : 382 A : 7.0x(Code H) : 17.6 A : 1780 rpm : 1.11 % : 24.5 kgfm : 250 % : 250 % : F : 1.15 : 0.8767 kgm² : B		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 36s (cold) 20s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 75.0 dB(A) : Direct On Line : 471 kg
Output Efficiency (%)	50% 94.1	75% 94.5	100% 95.0	Foundation loads Max. traction	: 452 kgf
Power Factor	0.72	0.82	0.87	Max. compression	: 922 kgf
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		Drive end : 6314 C3 : Oil Seal : 9789 h : 27 g : Moh		Non drive end 6314 C3 Lip Seal 9789 h 27 g obil 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

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

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Checked by				Page	Revision
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

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Customer :

Checked by

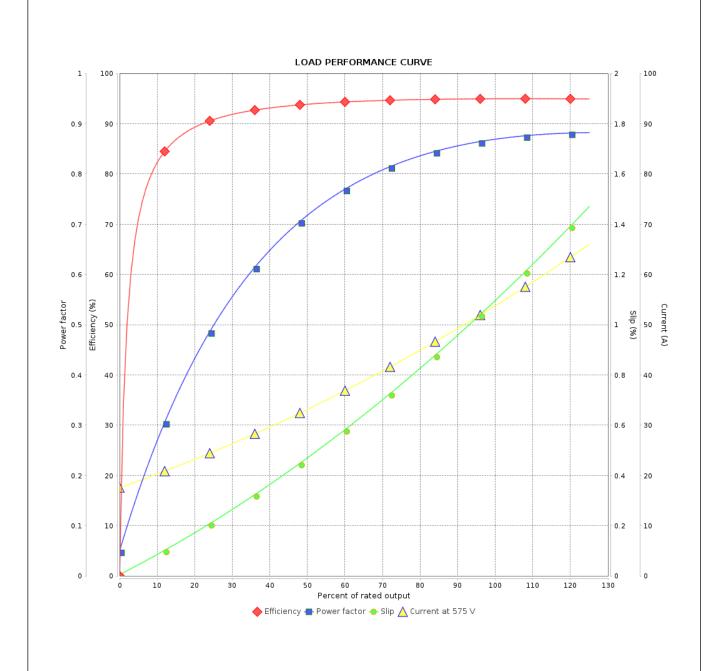
Date

30/10/2024

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 12697748



Performance : 575 V 60 Hz 4P Rated current : 54.6 A Moment of inertia (J) : 0.8767 kgm² **LRC** : 7.0 Duty cycle : Cont.(S1) : 24.5 kgfm Insulation class : F Rated torque Locked rotor torque : 250 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by