DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:				
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Pha			14283805
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		: 182/4TC : 5 HP (3.7 kW) : 4 : 60 Hz : 575 V : 5.26 A : 37.3 A : 7.1x(Code J) : 2.48 A : 1750 rpm : 2.78 % : 2.07 kgfm : 229 % : 300 % : F : 1.15 : 0.0156 kgm² : B		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 43s (cold) 24s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 56.0 dB(A) : Direct On Line : 62.2 kg
Output Efficiency (%) Power Factor	50% 86.5 0.59	75% 88.5 0.71	100% 89.5 0.79	Foundation loads Max. traction Max. compression	: 99 kgf : 161 kgf
Bearing type Sealing Lubrication interva Lubricant amount Lubricant type Notes	al	: : :	Drive end 6307 2RS Oil Seal - - Mo	Non drive end 6206 2RS Lip Seal bil Polyrex EM	

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

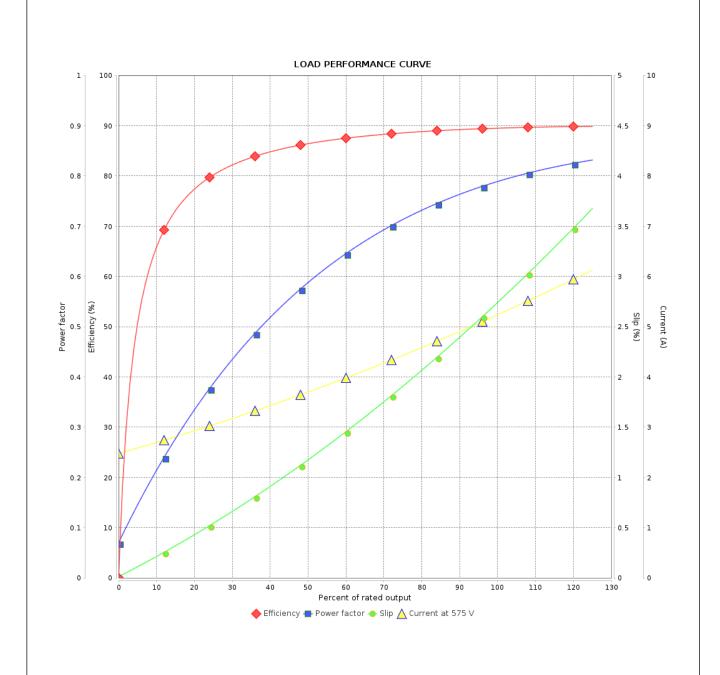


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14283805



Performance		: 575 V 60 Hz 4P				
Rated current		: 5.26 A	Moment of inertia (J)		: 0.0156 kgm²	
LRC		: 7.1	Duty cycle		: Cont.(S1)	
Rated torque		: 2.07 kgfm	Insulation class		: F	
Locked rotor torque		: 229 %	Service fa	Service factor		
Breakdown torque		: 300 %	Temperature rise		: 80 K	
Rated speed		: 1750 rpm	Design : B		: B	
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