DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14212598 Efficiency Three-Phase Catalog #: 00152XT3E182TC Frame : 182/4TC Locked rotor time : 63s (cold) 35s (hot) Output : 1.5 HP (1.1 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 4.64/2.32 A Protection degree : IP55 L. R. Amperes Cooling method : IC411 - TEFC : 30.6/15.3 A LRC : 6.6x(Code K) Mounting : F-1 No load current : 2.80/1.40 A Rotation¹ : Both (CW and CCW) Rated speed : 1165 rpm Noise level² : 52.0 dB(A) Starting method Slip : 2.92 % : Direct On Line Rated torque : 6.76 ft.lb Approx. weight³ : 128 lb Locked rotor torque : 260 % Breakdown torque : 330 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.4212 sq.ft.lb Design : B 25% Output 50% 75% 100% Foundation loads Efficiency (%) 83.3 86.0 84.5 85.5 86.5 86.5 87.5 85.5 Max. traction : 87 lb 84.1 82.8 84.5 84.0 86.5 85.5 86.5 86.5 Power Factor 0.27 0.30 0.47 0.52 0.59 0.63 0.68 0.73 : 215 lb Max. compression 0.28 0.26 0.48 0.45 0.60 0.57 0.70 0.67 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.4 15.9 14.7 14.7 P2 (0,5;1,0) 10.7 12.7 11.7 11.7 P3 (0,25;1,0) 10.0 11.9 11.0 11.0 Losses (%) P4 (0,9;0,5) 8.2 9.7 9.0 9.0 P5 (0,5;0,5) 5.5 6.6 6.0 6.0 P6 (0,5;0,25) 4.4 5.2 4.8 4.8 P7 (0,25;0,25) 3.2 3.8 3.5 3.5 Non drive end **Drive end** Bearing type 6307 2RS 6206 2RS Lip Seal Oil Seal Sealing Lubrication interval Lubricant amount 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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Three Phase Induction Motor - Squirrel Cage



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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

Rev.	Changes Summary Perform		Performed	Checked	Date
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