DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 11507579 Efficiency Three-Phase Catalog #: 03009XT3E364T : 364/5T Frame Locked rotor time : 25s (cold) 14s (hot) Output : 30 HP (22 kW) Temperature rise : 80 K Poles : 8 Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 230/460 V Altitude : 1000 m.a.s.l. Rated current : 77.1/38.6 A Protection degree : IP55 L. R. Amperes Cooling method : IC411 - TEFC : 440/220 A LRC : 5.7x(Code G) Mounting : F-1 No load current : 35.0/17.5 A Rotation¹ : Both (CW and CCW) Rated speed : 885 rpm Noise level² : 62.0 dB(A) Slip : 1.67 % Starting method : Direct On Line Rated torque : 178 ft.lb Approx. weight³ : 936 lb Locked rotor torque : 210 % Breakdown torque : 220 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 23.5 sq.ft.lb Design : B Output 50% 75% 100% Foundation loads Efficiency (%) 92.4 92.4 93.0 92.4 93.0 91.7 Max. traction : 1157 lb 92.4 82.4 92.4 92.4 91.7 92.4 Power Factor 0.64 0.70 0.73 0.77 0.77 0.79 Max. compression : 2075 lb 0.66 0.63 0.75 0.72 0.78 0.77 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.2 8.6 8.6 7.8 P2 (0,5;1,0) 5.8 7.0 7.0 6.4 P3 (0,25;1,0) 5.5 6.6 6.6 6.0 Losses (%) P4 (0,9;0,5) 3.7 4.5 4.5 4.1 P5 (0,5;0,5) 2.5 3.0 3.0 2.7 P6 (0,5;0,25) 1.8 2.1 2.1 1.9 P7 (0,25;0,25) 1.2 1.5 1.5 1.4 **Drive end** Non drive end Bearing type 6314 C3 6314 C3 Sealing Oil Seal Lip Seal 17353 h Lubrication interval 17353 h Lubricant amount 27 g 27 g Lubricant type Mobil Polyrex EM Notes: This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (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.

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Thermal protection

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

Rev.	Changes Summary		Performed	Checked	Date
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