DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Premium Product code: 14407459 Efficiency Three-Phase Catalog #: 01512XT3E284T : 284T Frame Locked rotor time : 45s (cold) 25s (hot) Output : 15 HP (11 kW) Temperature rise : 80 K Poles : 6 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 : 35.0/17.5 A Protection degree : IP55 L. R. Amperes : 252/126 A Cooling method : IC411 - TEFC LRC : 7.2x(Code H) Mounting : F-1 No load current : 12.0/6.00 A Rotation¹ : Both (CW and CCW) Rated speed : 1177 rpm Noise level² : 59.0 dB(A) Slip : 1.92 % Starting method : Direct On Line Rated torque : 66.9 ft.lb Approx. weight³ : 468 lb : 250 % Locked rotor torque Breakdown torque : 260 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 7.07 sq.ft.lb Design Output 25% 50% 75% 100% Foundation loads Efficiency (%) 90.8 89.8 91.0 89.5 91.7 90.2 91.7 89.5 Max. traction : 577 lb 89.3 89.9 89.5 89.5 90.2 91.0 90.2 90.2 Power Factor 0.49 0.53 0.74 0.77 0.82 0.84 0.86 0.87 Max. compression : 1043 lb 0.50 0.48 0.75 0.73 0.83 0.82 0.86 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.8 11.4 10.5 10.5 P2 (0,5;1,0) 7.2 9.3 8.6 8.6 P3 (0,25;1,0) 6.4 8.4 7.7 7.7 Losses (%) P4 (0,9;0,5) 4.2 5.4 5.0 5.0 P5 (0,5;0,5) 2.7 3.6 3.3 3.3 P6 (0,5;0,25) 1.7 2.3 2.1 2.1 P7 (0,25;0,25) 1.1 1.5 1.4 1.4 Non drive end **Drive end** Bearing type 6311 C3 6211 C3 Sealing Oil Seal Lip Seal 20000 h 20000 h Lubrication interval Lubricant amount 18 g 11 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

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

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