DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE2 Three-Phase Product code: Catalog #: E00712EP3Y160MF3-W22 : 160M Frame Locked rotor time : 30s (cold) 17s (hot) Output : 7.5 kW (10 HP) Temperature rise : 80 K Poles Duty cycle : S1 : 6 Frequency : 50 Hz Ambient temperature : -20°C to +40°C Rated voltage : 380/660 V Altitude : 1000 m.a.s.l. Rated current Protection degree : IP55 : 15.9/9.15 A : IC411 - TEFC L. R. Amperes : 92.2/53.1 A Cooling method LRC Mounting : B3T : 5.8 : 7.30/4.20 A : Both (CW and CCW) No load current Rotation¹ Rated speed : 970 rpm Noise level² : 57.0 dB(A) Slip : 3.00 % Starting method : Direct On Line Rated torque : 54.5 ft.lb Approx. weight³ : 249 lb Locked rotor torque : 210 % Breakdown torque : 240 % : F Insulation class Service factor : 1.00 Moment of inertia (J) : 2.92 sq.ft.lb Design : N 25% Output 50% 75% 100% Foundation loads Efficiency (%) 86.8 86.7 87.0 86.9 87.2 87.2 87.2 87.2 Max. traction : 584 lb 85.7 86.7 86.0 87.0 87.2 89.5 87.2 89.5 Power Factor 0.41 0.36 0.67 0.62 0.77 0.73 0.82 0.80 Max. compression : 833 lb 0.33 0.34 0.59 0.59 0.71 0.71 0.78 0.78 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 14.6 14.6 14.6 <u>11.7</u> P2 (0,5;1,0) 13.3 13.3 13.3 10.6 P3 (0,25;1,0) 12.3 12.3 12.3 9.8 Losses (%) P4 (0,9;0,5) 6.9 6.9 6.9 5.5 P5 (0,5;0,5) 5.0 5.0 5.0 4.0 P6 (0,5;0,25) 3.3 3.3 3.3 2.7 P7 (0,25;0,25) 2.4 1.9 2.4 Drive end Non drive end 6309 ZZ C3 Bearing type 6209 ZZ C3 V'Ring V'Ring Sealing Lubrication interval Lubricant amount 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 IEC (1) Looking the motor from the shaft end. 60034-1. (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	Thermistor - 2 wires	1 x Phase	155 °C	

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