DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE2 Three-Phase Product code: 12831990 Catalog #: E01518EP3Y160LF3-W22 : 160L Frame Locked rotor time : 18s (cold) 10s (hot) Output : 15 kW (20 HP) Temperature rise : 80 K Poles : 4 Duty cycle : S1 Frequency : 50 Hz Ambient temperature : -20°C to +40°C Rated voltage : 380/660 V Altitude : 1000 m.a.s.l. Protection degree Rated current : 29.6/17.0 A : IP55 L. R. Amperes : 178/102 A Cooling method : IC411 - TEFC **LRC** Mounting : B3T : 6.0 : Both (CW and CCW) No load current : 12.6/7.25 A Rotation¹ Rated speed : 1470 rpm Noise level² : 61.0 dB(A) Slip : 2.00 % Starting method : Direct On Line Rated torque : 71.9 ft.lb Approx. weight³ : 332 lb Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 2.98 sq.ft.lb Design : N Output 25% 50% 75% 100% Foundation loads Efficiency (%) 90.9 90.4 90.8 90.5 90.9 90.8 90.6 90.7 Max. traction : 748 lb 89.7 89.4 90.0 90.2 90.7 91.0 90.8 91.7 Power Factor 0.43 0.39 0.70 0.66 0.79 0.76 0.85 0.83 Max. compression : 1080 lb 0.36 0.37 0.63 0.62 0.73 0.75 0.81 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.5 10.3 10.2 9.1 P2 (0,5;1,0) 9.7 9.6 9.5 8.5 P3 (0,25;1,0) 8.9 8.8 8.7 7.8 Losses (%) P4 (0,9;0,5) 4.7 4.6 4.6 4.1 P5 (0,5;0,5) 3.5 3.5 3.5 3.1 P6 (0,5;0,25) 2.3 2.2 2.2 2.0 P7 (0,25;0,25) 1.7 1.7 1.5 1.7 Non drive end Drive end Bearing type 6309 ZZ C3 6209 ZZ C3 V'Ring Sealing V'Ring 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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Customer	

Thermal protection

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

Rev.	Changes Summary		Performed	Checked	Date
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