DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE2 Three-Phase Product code: Catalog #: E01818EP3Y160LF3-W22 : 160L Frame Locked rotor time : 21s (cold) 12s (hot) Output : 18.5 kW (25 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. Rated current : 36.3/20.9 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 276/159 A Cooling method **LRC** Mounting : B3T : 7.6 : 14.6/8.41 A : Both (CW and CCW) No load current Rotation¹ Rated speed : 1470 rpm Noise level² : 61.0 dB(A) Slip : 2.00 % Starting method : Direct On Line Rated torque : 88.7 ft.lb Approx. weight³ : 359 lb Locked rotor torque : 260 % Breakdown torque : 280 % : F Insulation class Service factor : 1.00 Moment of inertia (J) : 3.81 sq.ft.lb Design : N 25% Foundation loads Output 50% 75% 100% Efficiency (%) 90.1 90.2 90.5 90.5 91.0 91.0 91.2 91.2 Max. traction : 1120 lb 88.5 89.4 89.0 90.2 91.0 91.7 91.2 92.4 Power Factor 0.45 0.40 0.71 0.66 0.81 0.77 0.85 0.83 Max. compression : 1480 lb 0.36 0.39 0.62 0.64 0.74 0.76 0.81 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.3 9.3 9.3 7.9 P2 (0,5;1,0) 7.6 7.6 7.6 6.5 P3 (0,25;1,0) 6.8 6.8 6.8 5.8 Losses (%) P4 (0,9;0,5) 4.7 4.7 4.7 4.0 P5 (0,5;0,5) 3.2 3.2 3.2 2.7 P6 (0,5;0,25) 2.2 2.2 2.2 1.8 P7 (0,25;0,25) 1.4 1.4 1.2 1.4 Drive end Non drive end 6309 ZZ C3 Bearing type 6209 ZZ C3 Sealing V'Ring 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 p (4) At 100% of fu				
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Thermal protection

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

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