## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE2 Three-Phase Product code: Catalog #: E03736EP3Y200LF3-W22 : 200L Locked rotor time Frame : 21s (cold) 12s (hot) Output : 37 kW (50 HP) Temperature rise : 80 K Poles Duty cycle : S1 : 2 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 : 69.5/40.0 A : IC411 - TEFC L. R. Amperes : 528/304 A Cooling method **LRC** : 7.6 Mounting : B3T : Both (CW and CCW) No load current : 24.0/13.8 A Rotation<sup>1</sup> Rated speed : 2965 rpm Noise level<sup>2</sup> : 72.0 dB(A) Slip : 1.17 % Starting method : Direct On Line Rated torque : 595 lb : 87.9 ft.lb Approx. weight<sup>3</sup> Locked rotor torque : 290 % Breakdown torque : 280 % : F Insulation class Service factor : 1.00 Moment of inertia (J) : 4.63 sq.ft.lb Design : N 25% Foundation loads Output 50% 75% 100% Efficiency (%) 91.8 91.9 92.0 92.3 93.0 93.0 93.0 93.3 Max. traction : 736 lb 91.7 90.7 92.0 91.1 93.4 92.7 93.5 93.0 Power Factor 0.50 0.45 0.76 0.70 0.84 0.80 0.87 0.85 Max. compression : 1332 lb 0.39 0.40 0.63 0.60 0.76 0.78 0.82 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.1 6.8 6.6 7.1 P2 (0,5;1,0) 5.7 5.5 5.3 5.7 P3 (0,25;1,0) 5.5 5.2 5.0 5.5 Losses (%) P4 (0,9;0,5) 3.8 3.6 3.5 3.8 P5 (0,5;0,5) 2.4 2.3 2.2 2.4 P6 (0,5;0,25) 1.6 1.6 1.5 1.6 P7 (0,25;0,25) 1.1 1.0 1.0 1.1 Drive end Non drive end 6312 ZZ C3 Bearing type 6212 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 process. (4) At 100% of full load

( <del>+)</del> At 100 /0 01 10	iii 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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Performed by					
Checked by				Page	Revision
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