## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE2 Three-Phase Product code: 14414752 Catalog #: E01118EP3Y160MF3-W22 Locked rotor time Frame : 160M : 21s (cold) 12s (hot) Output : 11 kW (15 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 : 1000 m.a.s.l. Altitude Rated current Protection degree : IP55 : 21.9/12.6 A Cooling method : IC411 - TEFC L. R. Amperes : 131/75.7 A **LRC** .60 Mounting : B3T Rotation<sup>1</sup> : Both (CW and CCW) No load current : 9.10/5.24 A Rated speed : 1470 rpm Noise level<sup>2</sup> : 61.0 dB(A) Slip : 2.00 % Starting method : Direct On Line Rated torque : 283 lb : 52.7 ft.lb Approx. weight<sup>3</sup> Locked rotor torque : 200 % Breakdown torque : 250 % : F Insulation class Service factor : 1.00 Moment of inertia (J) : 2.49 sq.ft.lb Design : N 25% Foundation loads Output 50% 75% 100% Efficiency (%) 89.6 88.8 89.5 89.0 90.2 90.2 89.8 90.2 Max. traction : 527 lb 88.1 87.6 88.5 88.5 90.0 90.2 90.2 91.0 Power Factor 0.43 0.39 0.69 0.65 0.79 0.76 0.85 0.83 Max. compression : 810 lb 0.36 0.37 0.61 0.62 0.73 0.75 0.81 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.3 10.8 10.8 9.8 P2 (0,5;1,0) 10.1 9.6 9.6 8.8 P3 (0,25;1,0) 9.1 8.7 8.7 7.9 Losses (%) P4 (0,9;0,5) 5.3 5.0 5.0 4.6 P5 (0,5;0,5) 3.8 3.6 3.6 3.3 P6 (0,5;0,25) 2.5 2.4 2.4 2.2 P7 (0,25;0,25) 1.8 1.7 1.7 1.6 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 process. (4) At 100% of full load. Rev. **Changes Summary** Performed Checked Date

Performed by					
Checked by				Page	Revision
Date	26/03/2024			1/2	
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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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Checked by				Page	Revision
Date	26/03/2024			2/2	