DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 12024290 Catalog #: E01836EP3YAX160LF3-W : 160L Frame Locked rotor time : 14s (cold) 8s (hot) Output : 18.5 kW (25 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 : 34.3/19.8 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 288/166 A Cooling method Mounting **LRC** : B3T : 8.4 : Both (CW and CCW) No load current : 13.5/7.77 A Rotation¹ Rated speed : 2945 rpm Noise level² : 67.0 dB(A) Slip : 1.83 % Starting method : Direct On Line Rated torque : 44.3 ft.lb Approx. weight³ : 315 lb Locked rotor torque : 250 % Breakdown torque : 320 % : F Insulation class Service factor : 1.00 Moment of inertia (J) : 1.32 sq.ft.lb Design : N 25% Foundation loads Output 50% 75% 100% Efficiency (%) 0.000 92.4 92.0 92.9 92.9 93.0 93.2 Max. traction : 617 lb 0.000 91.6 90.2 92.8 91.7 93.3 92.4 0.000 0.000 Power Factor 0.00 0.00 0.74 0.70 0.83 0.80 0.88 0.86 Max. compression : 933 lb 0.00 0.00 0.66 0.69 0.77 0.80 0.84 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.2 7.0 6.9 7.9 P2 (0,5;1,0) 5.9 5.7 5.6 6.4 5.6 P3 (0,25;1,0) 5.4 5.4 6.1 3.8 3.7 3.6 Losses (%) P4 (0,9;0,5) 4.1 2.4 2.4 2.7 P5 (0,5;0,5) 2.5 1.6 P6 (0,5;0,25) 1.7 1.6 1.9 1.2 P7 (0,25;0,25) 1.1 1.1 1.1 Drive end Non drive end 6209 C3 6309 C3 Bearing type V'Ring V'Ring Sealing Lubrication interval 20000 h 20000 h Lubricant amount 13 g 9 g Lubricant type Mobil Polyrex EM Notes:

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	26/03/2024			1/2	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



_	
Customer	

Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	140 °C
2	Winding	Thermistor - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	26/03/2024			2/2	