## **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE2 Three-Phase Product code: 14421096 Catalog #: E07518EP3Y280SMF3-W2 Frame : 280S/M Locked rotor time : 36s (cold) 20s (hot) Output : 75 kW (100 HP) Temperature rise : 80 K Poles Duty cycle : S1 : -20°C to +40°C Frequency : 50 Hz Ambient temperature Rated voltage : 380/660 V : 1000 m.a.s.l. Altitude Rated current : 142/81.8 A Protection degree : IP55 L. R. Amperes : 951/548 A Cooling method : IC411 - TEFC LRC : 6.7 Mounting : B3T No load current : 43.0/24.8 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1486 rpm Noise level<sup>2</sup> : 71.0 dB(A) Starting method Slip : 0.93 % : Direct On Line Rated torque : 356 ft.lb Approx. weight<sup>3</sup> : 1409 lb Locked rotor torque : 190 % Breakdown torque : 229 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 39.0 sq.ft.lb Design : N 25% 100% Output 50% 75% Foundation loads Efficiency (%) 93.5 93.7 93.8 93.8 94.0 94.4 94.2 94.4 Max. traction : 1580 lb 93.3 91.9 93.5 92.4 94.3 94.1 94.4 94.5 Power Factor 0.53 0.48 0.77 0.73 0.83 0.81 0.85 0.84 Max. compression : 2990 lb 0.44 0.46 0.70 0.72 0.79 0.80 0.83 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.7 5.5 5.5 5.4 P2 (0,5;1,0) 4.1 4.0 4.0 3.9 P3 (0,25;1,0) 3.7 3.5 3.5 3.5 Losses (%) P4 (0,9;0,5) 2.9 2.8 2.8 2.8 P5 (0,5;0,5) 1.7 1.6 1.6 1.6 P6 (0,5;0,25) 1.1 1.1 1.1 1.0 P7 (0,25;0,25) 0.7 0.6 0.6 0.6 Non drive end **Drive end** 6316 C3 Bearing type 6316 C3 WSeal WSeal Sealing Lubrication interval 13000 h 13000 h Lubricant amount 34 g 34 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	

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# Three Phase Induction Motor - Squirrel Cage



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