DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12822267 Catalog #: 00536ET3ER184TC-W22 Frame : 184TC Locked rotor time : 32s (cold) 18s (hot) Output : 5 HP (3.7 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 11.8/5.90 A Protection degree : IP55 L. R. Amperes : 89.7/44.8 A Cooling method : IC411 - TEFC LRC : 7.6x(Code J) Mounting : W-6 No load current : 4.00/2.00 A Rotation¹ : Both (CW and CCW) Rated speed : 3500 rpm Noise level² : 66.0 dB(A) Starting method Slip : 2.78 % : Direct On Line Rated torque : 7.50 ft.lb Approx. weight³ : 95.7 lb Locked rotor torque : 229 % Breakdown torque : 350 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.2233 sq.ft.lb Design : B 25% 100% Output 50% 75% Foundation loads Efficiency (%) 86.1 86.1 86.5 86.3 88.5 87.7 88.5 87.5 Max. traction : 126 lb 85.9 85.7 86.3 86.1 88.2 88.2 88.3 88.3 88.0 88.0 87.5 87.5 87.5 88.5 86.5 87.5 0.88 87.5 88.5 87.5 0.51 0.49 0.76 0.74 0.85 0.85 0.89 0.89 Power Factor Max. compression : 222 lb 0.46 0.43 0.71 0.68 0.83 0.81 0.88 0.87 $0.56\ 0.53\ 0.81\ 0.78\ 0.88\ 0.87\ 0.91\ 0.90$ 0.50 0.76 0.85 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0.9:1.0) 12.2 13.4 12.4 12.4 14.7 13.4 13.4 P2 (0,5;1,0) 10.1 11.1 10.3 10.3 12.1 11.1 11.1 P3 (0,25;1,0) 9.7 10.7 9.9 9.9 11.7 10.7 10.7 P4 (0,9;0,5) Losses (%) 5.9 6.5 6.1 6.1 7.1 6.5 6.5 P5 (0,5;0,5) 3.7 4.0 3.7 3.7 4.4 4.0 4.0 P6 (0,5;0,25) 2.3 2.5 2.3 2.3 2.7 2.5 2.5 P7 1.5 1.6 1.5 1.5 1.8 1.6 1.6 (0,25;0,25)Drive end Non drive end Bearing type 6207 ZZ 6206 ZZ 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 NEMA (1 (2) (3)ma

(1) Looking the motor from the shaft end.	MG-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	28/03/2024			1/1	