DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Super Premium Efficiency Three-Product code: 12604501 Catalog #: 04036EG3E324TS-W22 Frame Locked rotor time : 48s (cold) 27s (hot) : 324/6TS Output : 40 HP (30 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 : 93.0/46.5 A Protection degree : IP55 L. R. Amperes : 744/372 A Cooling method : IC411 - TEFC : 8.0x(Code J) LRC Mounting : F-1 No load current : 31.0/15.5 A Rotation¹ : Both (CW and CCW) Rated speed : 3565 rpm Noise level² : 76.0 dB(A) Starting method Slip : 0.97 % : Direct On Line Rated torque : 58.9 ft.lb Approx. weight³ : 553 lb Locked rotor torque : 310 % Breakdown torque : 310 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 4.63 sq.ft.lb Design : A 50% 75% 100% Output Foundation loads Efficiency (%) 92.4 93.0 94.1 93.6 94.1 93.6 Max. traction : 539 lb 93.6 93.0 94.1 94.1 94.1 94.1 Power Factor 0.74 0.79 0.83 0.86 0.86 0.88 Max. compression : 1092 lb 0.84 0.82 0.76 0.73 0.87 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.8 6.3 5.8 5.8 P2 (0,5;1,0) 3.9 4.2 3.9 3.9 P3 (0,25;1,0) 3.2 3.5 3.2 3.2 Losses (%) P4 (0,9;0,5) 3.6 3.9 3.6 3.6 P5 (0,5;0,5) 1.8 2.0 1.8 1.8 P6 (0,5;0,25) 1.3 1.5 1.3 1.3 P7 (0,25;0,25) 0.7 8.0 0.7 0.7 Non drive end **Drive end** 6212 C3 Bearing type 6312 C3 V'Ring V'Ring Sealing Lubrication interval 12000 h 15000 h Lubricant amount 21 g 13 g 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) 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	29/03/2024				1/1	