DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11431716 Three-Phase Catalog #: 03009ST3QIE364T-W22 Frame : 364/5T Locked rotor time : 45s (cold) 25s (hot) Output : 30 HP (22 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 460 V : 1000 m.a.s.l. Altitude Rated current : 38.1 A Protection degree : IP56 L. R. Amperes : 236 A Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-1 No load current : 16.0 A Rotation¹ : Both (CW and CCW) Rated speed : 882 rpm Noise level² : 60.0 dB(A) Starting method Slip : 2.00 % : Direct On Line Rated torque : 179 ft.lb Approx. weight³ : 775 lb Locked rotor torque : 160 % Breakdown torque : 229 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 23.5 sq.ft.lb Design : B 25% Output 50% 75% 100% Foundation loads Efficiency (%) 91.3 88.7 91.5 89.0 91.7 89.5 91.7 89.5 Max. traction : 1090 lb 90.2 90.3 90.5 90.5 90.6 90.6 90.6 90.6 Power Factor 0.39 0.47 0.62 0.71 0.73 0.79 0.79 0.82 Max. compression : 1865 lb 0.43 0.40 0.67 0.65 0.77 0.75 0.81 0.80 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.9 8.9 8.9 8.9 P2 (0,5;1,0) 7.7 7.7 7.7 7.7 P3 (0,25;1,0) 7.2 7.2 7.2 7.2 Losses (%) P4 (0,9;0,5) 3.9 3.9 3.9 3.9 P5 (0,5;0,5) 2.8 2.8 2.8 2.8 P6 (0,5;0,25) 1.7 1.7 1.7 1.7 P7 (0,25;0,25) 1.3 1.3 1.3 1.3 Non drive end **Drive end** Bearing type 6314 C3 6314 C3 Inpro/Seal Inpro/Seal Sealing Lubrication interval 20000 h 20000 h Lubricant amount 27 g 27 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.

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Date	25/03/2024	1		1 / 1	