DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12385056 Three-Phase Catalog #: 00712ST3QIE254TC-W22 : 254/6TC Locked rotor time Frame : 54s (cold) 30s (hot) Output : 7.5 HP (5.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 460 V Altitude : 1000 m.a.s.l. Rated current : 9.48 A Protection degree : IP56 L. R. Amperes Cooling method : IC411 - TEFC : 63.5 A LRC : 6.7x(Code H) Mounting : F-1 No load current : 4.50 A Rotation¹ : Both (CW and CCW) Rated speed : 1175 rpm Noise level² : 59.0 dB(A) Slip : 2.08 % Starting method : Direct On Line Rated torque : 33.5 ft.lb Approx. weight³ : 301 lb Locked rotor torque : 240 % Breakdown torque : 290 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.92 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 88.6 90.2 89.5 89.5 90.2 89.5 91.0 88.5 Max. traction : 334 lb 89.3 88.7 89.5 89.5 89.5 89.5 89.5 90.2 Power Factor 0.38 0.44 0.63 0.70 0.74 0.79 0.80 0.83 : 635 lb Max. compression 0.41 0.39 0.66 0.64 0.77 0.75 0.82 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.9 14.5 13.0 12.0 P2 (0,5;1,0) 9.4 13.0 11.5 10.5 P3 (0,25;1,0) 8.9 12.4 11.0 10.0 Losses (%) P4 (0,9;0,5) 5.6 7.2 6.5 6.1 P5 (0,5;0,5) 4.0 5.4 4.8 4.4 P6 (0,5;0,25) 2.9 3.8 3.4 3.2 P7 (0,25;0,25) 2.0 2.9 2.5 2.3 Non drive end **Drive end** 6309 C3 Bearing type 6209 C3 Inpro/Seal Inpro/Seal Sealing 20000 h 20000 h Lubrication interval Lubricant amount 13 g 9 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	26/03/2024				1 / 1	