DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11997252 Catalog #: 70018ET3G588/9-W22 Frame : 588/9T Locked rotor time : 41s (cold) 23s (hot) Output : 700 HP (515.20 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 : 788 A Protection degree : IP55 L. R. Amperes : 5122 A Cooling method : IC411 - TEFC LRC : 6.5x(Code G) Mounting : F-1 No load current : 240 A Rotation¹ : Both (CW and CCW) Rated speed : 1790 rpm Noise level² : 81.0 dB(A) Slip : 0.56 % Starting method : Direct On Line Rated torque : 2050 ft.lb Approx. weight³ : 5542 lb Locked rotor torque : 250 % Breakdown torque : 220 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 335 sq.ft.lb 25% 100% Foundation loads Output 50% 75% Efficiency (%) 96.0 96.1 96.2 96.2 96.5 96.5 96.6 96.5 Max. traction : 8700 lb 96.1 95.4 96.2 95.8 96.5 96.2 96.5 96.5 Power Factor 0.51 0.53 0.76 0.77 0.81 0.82 0.85 0.85 Max. compression : 14242 lb 0.48 0.45 0.73 0.71 0.79 0.77 0.84 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.2 4.2 4.2 4.2 P2 (0,5;1,0) 3.2 3.2 3.2 3.2 P3 (0,25;1,0) 2.5 2.5 2.5 2.5 Losses (%) P4 (0,9;0,5) 2.6 2.6 2.6 2.6 P5 (0,5;0,5) 1.8 1.8 1.8 1.8 P6 (0,5;0,25) 1.4 1.4 1.4 1.4 P7 (0,25;0,25) 0.8 0.8 0.8 8.0 Non drive end **Drive** end Bearing type 6322 C3 6319 C3 Taconite Labyrinth Taconite Labyrinth Sealing 8000 h Lubrication interval 6000 h Lubricant amount 60 g 45 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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