DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11804410 Frame : 324T Locked rotor time : 36s (cold) 20s (hot) Output : 40 HP (30 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 4 Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 230/460 V Altitude : 1000 m.a.s.l. Protection degree Rated current : 94.2/47.1 A : IP55 L. R. Amperes : 575/287 A Cooling method : IC411 - TEFC : F-3 **LRC** : 6.1x(Code G) Mounting : 34.0/17.0 A No load current Rotation¹ : Both (CW and CCW) Rated speed : 1775 rpm Noise level² : 66.0 dB(A) Slip : 1.39 % Starting method : Direct On Line Rated torque : 118 ft.lb Approx. weight³ : 562 lb Locked rotor torque : 229 % Breakdown torque : 240 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 9.16 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 93.5 92.9 93.6 92.9 94.1 93.1 94.1 93.0 Max. traction : 980 lb 92.1 91.1 92.4 91.7 93.0 92.6 93.2 93.1 94.0 94.0 93.6 93.6 93.0 93.0 92.4 92.4 93.0 93.0 0.46 0.43 0.72 0.68 0.80 0.78 0.85 0.84 Power Factor Max. compression : 1542 lb $0.40\; 0.38\; 0.64\; 0.62\; 0.75\; 0.73\; 0.82\; 0.80$ $0.53\; 0.53\; 0.78\; 0.78\; 0.84\; 0.84\; 0.86\; 0.86$ 0.80 0.72 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.1 6.1 6.1 6.1 6.1 6.1 6.1 P2 (0,5;1,0) 5.1 5.1 5.1 5.1 5.1 5.1 5.1 P3 (0,25;1,0) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 P4 (0,9;0,5) 2.8 2.8 2.8 2.8 2.8 2.8 2.8 Losses (%) P5 (0,5;0,5) 1.9 1.9 1.9 1.9 1.9 1.9 1.9 P6 (0,5;0,25) 1.2 1.2 1.2 1.2 1.2 1.2 1.2 P7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 (0,25;0,25)Drive end Non drive end Bearing type 6312 C3 6212 C3 Sealing V'Ring V'Ring Lubrication interval 20000 h 20000 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.

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Thermal protection

1		•		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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