## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11805053 Frame : 444/5T Locked rotor time : 48s (cold) 27s (hot) Output : 150 HP (110 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. Protection degree Rated current : 170 A : IP55 L. R. Amperes : 1122 A Cooling method : IC411 - TEFC : F-3 **LRC** : 6.6x(Code G) Mounting No load current : 58.0 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1784 rpm Noise level<sup>2</sup> : 73.0 dB(A) Slip : 0.89 % Starting method : Direct On Line Rated torque : 442 ft.lb Approx. weight<sup>3</sup> : 1800 lb Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 66.7 sq.ft.lb Design : B Output 25% 50% 75% Foundation loads 100% Efficiency (%) 95.3 95.2 95.4 95.1 95.8 95.5 95.8 95.3 Max. traction : 2500 lb 95.2 94.7 95.1 94.8 95.5 95.5 95.3 95.5 95.6 95.7 95.4 95.4 95.4 95.4 95.0 95.0 95.4 95.4 95.4 0.49 0.49 0.74 0.73 0.82 0.83 0.85 0.85 Power Factor Max. compression : 4301 lb 0.45 0.43 0.70 0.68 0.81 0.79 0.85 0.84 0.55 0.51 0.79 0.76 0.85 0.83 0.86 0.86 0.74 0.82 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.5 4.5 4.5 4.5 4.5 4.5 4.5 P2 (0,5;1,0) 3.5 3.5 3.5 3.5 3.5 3.5 3.5 P3 (0,25;1,0) 3.1 3.1 3.1 3.1 3.1 3.1 3.1 P4 (0,9;0,5) 2.4 2.4 2.4 2.4 2.4 2.4 2.4 Losses (%) P5 (0,5;0,5) 1.5 1.5 1.5 1.5 1.5 1.5 1.5 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 1.1 1.1 1.1 P7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 (0,25;0,25)Drive end Non drive end Bearing type NU-319 C3 6316 C3 Sealing **WSeal WSeal** 5000 h 10000 h Lubrication interval Lubricant amount 45 g 34 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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