## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12822411 Three-Phase Catalog #: 00118ST3QIER143TC-W2 Frame : 143TC Locked rotor time : 32s (cold) 18s (hot) Output : 1 HP (0.75 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 : 1.47 A Protection degree : IP56 L. R. Amperes Cooling method : IC411 - TEFC : 12.6 A LRC : 8.6x(Code M) Mounting : W-6 No load current : 0.940 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1760 rpm Noise level<sup>2</sup> : 51.0 dB(A) Starting method Slip : 2.22 % : Direct On Line Rated torque : 2.98 ft.lb Approx. weight<sup>3</sup> : 51.6 lb : 290 % Locked rotor torque Breakdown torque : 350 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.1172 sq.ft.lb Design : B 25% Output 50% 75% 100% Foundation loads Efficiency (%) 78.4 79.6 80.0 80.0 84.0 82.5 85.5 82.5 Max. traction : 71 lb 78.4 78.4 80.0 80.0 82.5 82.5 84.0 84.0 Power Factor 0.31 0.36 0.55 0.62 0.68 0.74 0.75 0.81 : 123 lb Max. compression 0.33 0.31 0.58 0.55 0.71 0.69 0.78 0.76 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 15.9 15.9 15.9 15.9 P2 (0,5;1,0) 12.8 12.8 12.8 12.8 P3 (0,25;1,0) 12.5 12.5 12.5 12.5 Losses (%) P4 (0,9;0,5) 10.1 10.1 10.1 10.1 P5 (0,5;0,5) 7.0 7.0 7.0 7.0 P6 (0,5;0,25) 5.8 5.8 5.8 5.8 P7 (0,25;0,25) 4.3 4.3 4.3 4.3 Non drive end **Drive end** Bearing type 6205 C3 6204 C3 Inpro/Seal Inpro/Seal Sealing Lubrication interval 20000 h 20000 h Lubricant amount 4 g 4 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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Rev.	Changes Summary		Performed	Checked	Date
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Checked by				Page	Revision
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