## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12373691 Three-Phase Catalog #: 00156ST3QIE143TC-W22 Frame : 143/5TC Locked rotor time : 37s (cold) 21s (hot) Output : 1.5 HP (1.1 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 : 1.96 A Protection degree : IP56 L. R. Amperes : 17.4 A Cooling method : IC411 - TEFC **LRC** : 8.9x(Code L) Mounting : F-1 No load current : 0.830 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3480 rpm Noise level<sup>2</sup> : 68.0 dB(A) Starting method Slip : 3.33 % : Direct On Line Rated torque : 2.26 ft.lb Approx. weight3 : 54.7 lb Locked rotor torque : 310 % Breakdown torque : 370 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.0470 sq.ft.lb Design : B 25% 100% Output 50% 75% Foundation loads Efficiency (%) 81.1 79.9 81.5 80.5 84.0 83.2 84.0 83.4 Max. traction : 46 lb 78.4 77.9 79.3 78.9 82.8 82.7 83.4 83.4 80.6 81.6 81.0 82.0 81.5 82.5 81.5 82.5 81.7 82.0 82.5 82.5 0.43 0.39 0.68 0.63 0.78 0.74 0.84 0.81 Power Factor Max. compression : 101 lb 0.35 0.33 0.58 0.55 0.71 0.68 0.78 0.76  $0.51\ 0.46\ 0.75\ 0.70\ 0.84\ 0.80\ 0.87\ 0.86$ 0.43 0.67 0.78 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0.9:1.0) 17.7 17.7 17.7 17.7 17.7 17.7 P2 (0,5;1,0) 13.3 13.3 13.3 13.3 13.3 13.3 13.3 P3 (0,25;1,0) 12.1 12.1 12.1 12.1 12.1 12.1 12.1 P4 (0,9;0,5) Losses (%) 9.8 9.8 9.8 9.8 9.8 9.8 9.8 P5 (0,5;0,5) 5.6 5.6 5.6 5.6 5.6 5.6 5.6 P6 (0,5;0,25) 3.8 3.8 3.8 3.8 3.8 3.8 3.8 P7 2.4 2.4 2.4 2.4 2.4 2.4 2.4 (0,25;0,25)Drive end Non drive end Bearing type 6205 C3 6204 C3 Inpro/Seal Sealing Inpro/Seal 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 fu	ıll load.				
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	29/03/2024			1/1	