## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11442842 Frame : 284T Locked rotor time : 36s (cold) 20s (hot) Output : 15 HP (11 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 6 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 : 35.8/17.9 A : IP55 L. R. Amperes : 229/115 A Cooling method : IC411 - TEFC **LRC** : 6.4x(Code G) Mounting : F-1 No load current : 14.0/7.00 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1175 rpm Noise level<sup>2</sup> : 59.0 dB(A) Slip : 2.08 % Starting method : Direct On Line Rated torque : 67.0 ft.lb Approx. weight<sup>3</sup> : 382 lb Locked rotor torque : 229 % Breakdown torque : 260 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 7.85 sq.ft.lb Design Output 25% 50% 75% 100% Foundation loads Efficiency (%) 90.8 88.8 91.0 89.0 91.7 89.4 91.7 89.4 Max. traction : 690 lb 89.0 89.0 89.1 89.1 89.5 89.5 89.5 89.5 92.4 90.6 91.0 90.2 90.2 90.2 88.5 89.5 91.0 90.2 90.2 0.44 0.39 0.69 0.64 0.80 0.76 0.84 0.82 Power Factor Max. compression : 1072 lb 0.36 0.34 0.61 0.58 0.73 0.71 0.80 0.78  $0.50\ 0.47\ 0.75\ 0.72\ 0.83\ 0.81\ 0.86\ 0.85$ 0.70 0.80 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.6 11.2 11.1 11.1 12.3 11.1 10.3 P2 (0,5;1,0) 6.9 9.1 9.0 9.0 10.0 9.0 8.3 P3 (0,25;1,0) 6.2 8.1 8.0 8.0 8.9 8.0 7.4 P4 (0,9;0,5) 4.3 5.6 5.6 5.6 6.2 5.6 5.2 Losses (%) P5 (0,5;0,5) 2.8 3.6 3.6 3.6 4.0 3.6 3.3 P6 (0,5;0,25) 1.8 2.4 2.4 2.4 2.6 2.4 2.2 P7 1.2 1.6 1.6 1.6 1.8 1.6 1.5 (0,25;0,25)Drive end Non drive end Bearing type 6311 C3 6211 C3 V'Ring V'Ring Sealing Lubrication interval 20000 h 20000 h Lubricant amount 18 g 11 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.

| Rev.         | Changes Summary |  | Performed | Checked | Date |          |
|--------------|-----------------|--|-----------|---------|------|----------|
|              |                 |  |           |         |      |          |
| Performed by |                 |  |           |         |      |          |
| Checked by   |                 |  |           |         | Page | Revision |
| Date         | 28/03/2024      |  |           |         | 1/1  |          |