## **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 Tru-Metric IE2 Three-Phase Product code: 12470271 Frame : 54s (cold) 30s (hot) : 315S/M Locked rotor time Output : 100 HP (75 kW) Temperature rise : 80 K Poles Duty cycle : S1 : 8 Frequency : 50 Hz Ambient temperature : -20°C to +40°C Rated voltage : 380 V Altitude : 1000 m.a.s.l. Rated current : 147 A Protection degree : IP55 :867 A Cooling method : IC411 - TEFC L. R. Amperes **LRC** : 5.9 Mounting : B3T No load current : 52.5 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 740 rpm Noise level<sup>2</sup> : 62.0 dB(A) Slip : 1.33 % Starting method : Direct On Line Rated torque : 710 ft.lb Approx. weight3 : 2220 lb Locked rotor torque : 160 % Breakdown torque : 190 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 77.5 sq.ft.lb Design : N Output 25% 50% 75% 100% Foundation loads Efficiency (%) 94.5 93.4 94.4 93.8 94.5 94.4 94.3 94.7 Max. traction : 2146 lb 93.4 93.6 94.5 94.5 Max. compression Power Factor 0.47 0.39 0.72 0.64 0.80 0.75 0.82 0.80 : 4366 lb 0.40 0.65 0.77 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.7 5.2 5.5 P2 (0,5;1,0) 4.0 3.7 3.9 P3 (0,25;1,0) 3.3 3.1 3.2 Losses (%) P4 (0,9;0,5) 3.2 2.9 3.0 P5 (0,5;0,5) 1.9 1.7 1.8 P6 (0,5;0,25) 1.4 1.3 1.3 P7 (0,25;0,25) 0.8 0.8 8.0 Drive end Non drive end Bearing type NU-319 C3 6316 C3 WSeal WSeal Sealing 15000 h 20000 h Lubrication interval Lubricant amount 45 g 34 g Lubricant type Mobil Polyrex EM Notes:

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	26/03/2024			1/1	