## **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 Tru-Metric IE2 Three-Phase Product code: 13025542 Frame : 280S/M : 57s (cold) 32s (hot) Locked rotor time Output : 60 HP (45 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 : 89.8 A Protection degree : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 584 A LRC : 6.5 Mounting : B3L(E) : 36.0 A : Both (CW and CCW) No load current Rotation<sup>1</sup> Rated speed : 735 rpm Noise level<sup>2</sup> : 59.0 dB(A) Slip : 2.00 % Starting method : Direct On Line Rated torque : 429 ft.lb Approx. weight3 : 1556 lb Locked rotor torque : 180 % Breakdown torque : 220 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 64.3 sq.ft.lb Design : N Output 25% 50% 75% 100% Foundation loads 93.0 91.8 93.3 92.5 93.9 93.5 94.0 94.1 Efficiency (%) Max. traction : 1785 lb 90.2 91.0 93.6 94.1 Power Factor 0.42 0.34 0.66 0.58 0.77 0.70 0.81 0.77 Max. compression : 3341 lb 0.38 0.63 0.74 0.78 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.0 5.9 5.9 P2 (0,5;1,0) 4.5 4.4 4.4 P3 (0,25;1,0) 3.9 3.8 3.8 Losses (%) P4 (0,9;0,5) 3.5 3.4 3.4 P5 (0,5;0,5) 2.1 2.1 2.1 P6 (0,5;0,25) 1.6 1.6 1.6 P7 (0,25;0,25) 1.1 1.0 1.0 Drive end Non drive end Bearing type 6316 C3 6316 C3 WSeal Sealing WSeal 20000 h 20000 h Lubrication interval Lubricant amount 34 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

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	