## **DATA SHEET**

Checked by

Date

25/03/2024

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11603072 Three-Phase Frame : 182/4TC Locked rotor time : 55s (cold) 31s (hot) Output : 2 HP (1.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 1000 m.a.s.l. : 460 V Altitude Rated current : 3.22 A Protection degree : IP56 Cooling method : IC411 - TEFC L. R. Amperes : 24.2 A **LRC** : 7.5x(Code L) Mounting : F-1 : 1.90 A : Both (CW and CCW) No load current Rotation<sup>1</sup> Rated speed : 1170 rpm Noise level<sup>2</sup> : 52.0 dB(A) Slip : 2.50 % Starting method : Direct On Line Rated torque : 8.98 ft.lb Approx. weight<sup>3</sup> : 114 lb Locked rotor torque : 300 % Breakdown torque : 350 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.6210 sq.ft.lb Design : B 25% Foundation loads Output 50% 75% 100% Efficiency (%) 85.4 84.8 86.5 85.5 87.5 86.0 88.5 86.5 Max. traction : 179 lb 84.8 84.2 85.5 85.0 86.5 86.5 87.0 87.0 Power Factor 0.26 0.31 0.46 0.53 0.58 0.65 0.66 0.72 Max. compression : 293 lb 0.28 0.26 0.49 0.46 0.62 0.59 0.69 0.67 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 12.3 12.3 12.3 12.3 P2 (0,5;1,0) 9.8 9.8 9.8 9.8 P3 (0,25;1,0) 9.2 9.2 9.2 9.2 Losses (%) P4 (0,9;0,5) 7.4 7.4 7.4 7.4 P5 (0,5;0,5) 5.0 5.0 5.0 5.0 P6 (0,5;0,25) 3.9 3.9 3.9 3.9 P7 (0,25;0,25) 2.9 2.9 2.9 2.9 Drive end Non drive end 6206 2RS C3 6207 2RS C3 Bearing type Sealing Inpro/Seal Inpro/Seal Lubrication interval Lubricant amount 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. Performed Checked Rev. **Changes Summary** Date Performed by

This do	ocument is exclusive	property of WEG S/A.	Reprinting is not allowed	without writter	authorization of WE	G S/A.
Subject to change without notice						

Page

1/1

Revision