### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 12881787 Frame : 90L Cooling method : IC411 - TEFC Insulation class Mounting : F : B3T Duty cycle : S1 Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 23.8 kg : 0.0026 kgm² Protection degree : IP55 Moment of inertia (J) Design : N Output [kW] 2.2 2.2 2.2 2.2 Poles 2 2 2 2 50 50 50 60 Frequency [Hz] Rated voltage [V] 380/660 400/690 415 460 Rated current [A] 4.58/2.64 4.51/2.61 4.51 3.99 L. R. Amperes [A] 32.1/18.5 33.8/19.6 36.1 34.7 LRC [A] 8.0 8.7 7.0 7.5 2.40/1.39 No load current [A] 2.00/1.15 2.70 2.20 Rated speed [RPM] 2870 2895 3500 2885 Slip [%] 3.50 2.78 4.33 3.83 Rated torque [Nm] 7.32 7.29 7.26 6.01 Locked rotor torque [%] 370 409 310 350 Breakdown torque [%] 340 380 440 300 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 16s (cold) 9s (hot) Locked rotor time 18s (cold) 10s (hot) 16s (cold) 9s (hot) 18s (cold) 10s (hot) 68.0 dB(A) Noise level<sup>2</sup> 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 25% 50% 85.0 83.0 83.0 84.0 Efficiency (%) 75% 85.0 85.5 85.9 85.5 100% 85.9 85.9 85.9 86.5 25% 50% 0.68 0.62 0.57 0.60 Power Factor 75% 0.79 0.75 0.70 0.73 100% 0.85 0.82 0.79 0.80 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 16.0 16.0 16.0 15.3 P2 (0,5;1,0) 14.1 14.1 14.1 13.4 P3 (0,25;1,0) 12.9 12.2 12.9 12.9 7.6 Losses (%) P4 (0,9;0,5) 7.6 7.6 7.2 P5 (0,5;0,5) 5.3 5.3 5.3 5.0 P6 (0,5;0,25) 3.5 3.5 3.5 3.3 P7 (0,25;0,25) 2.5 2.5 2.5 2.4 Drive end Non drive end Foundation loads Bearing type 6205 ZZ 6204 ZZ Max. traction : 638 N V'Ring Sealing V'Rina : 871 N Max. compression Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

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 IEC 60034-1.

• •						
Rev.		Changes Summary Performed		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Data	30/08/2023	1			1/3	

# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



		•	3		
Customer	:				
	·				
Notes					
		01 0	<u> </u>		
Rev.		Changes Summary	Performed	Checked	Date
Performed by					I
				D	Davidat
Checked by				Page	Revision

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

#### Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

					_
Rev.	Changes Summary Perfor		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	30/08/2023			3/3	