### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Customer Product line : W22 IE3 Three-Phase Product code: 12881894 : 180M Cooling method : IC411 - TEFC Frame Mounting Insulation class : B3T : F 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> : 183 kg : IP55 Moment of inertia (J) : 0.0968 kgm<sup>2</sup> Protection degree : N Design Output [kW] 22 22 22 22 2 Poles 2 2 2 Frequency [Hz] 50 50 50 60 Rated voltage [V] 220/380 230/400 240/415 460 Rated current [A] 71.5/41.4 69.2/39.8 68.0/39.3 35.6 L. R. Amperes [A] 594/344 575/330 564/326 313 LRC [A] 8.3 8.3 8.3 8.8 No load current [A] 24.2/14.0 26.1/15.0 29.4/17.0 14.5 Rated speed [RPM] 2955 2960 2965 3565 Slip [%] 1.33 1.50 1.17 0.97 Rated torque [Nm] 71.1 71.0 70.9 59.0 Locked rotor torque [%] 290 320 340 380 Breakdown torque [%] 290 320 340 370 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 16s (cold) 9s (hot) 16s (cold) 9s (hot) 16s (cold) 9s (hot) 16s (cold) 9s (hot) Noise level<sup>2</sup> 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 72.0 dB(A) 25% 0.000 0.000 0.000 91.6 50% 92.2 92.0 91.5 Efficiency (%) 75% 92.7 92.7 92.5 92.2 92.7 92.4 100% 92.7 92.7 25% 0.00 0.00 0.00 0.68 50% 0.74 0.69 0.66 Power Factor 75% 0.83 0.80 0.78 0.79 100% 0.87 0.86 0.84 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.6 7.6 7.6 7.9 P2 (0,5;1,0) 6.3 6.3 6.3 6.6 P3 (0,25;1,0) 5.7 5.7 5.7 6.0 Losses (%) P4 (0,9;0,5) 3.7 3.7 3.7 3.9 P5 (0,5;0,5) 2.4 2.4 2.4 2.5 P6 (0,5;0,25) 1.5 1.5 1.5 1.6 P7 (0,25;0,25) 1.0 1.0 1.0 1.1 Drive end Non drive end Foundation loads Bearing type 6311 ZZ C3 6211 ZZ C3 Max. traction : 2230 N : 4025 N Sealing V'Ring V'Rina Max. compression Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM 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 IEC (1) Looking the motor from the shaft end. 60034-1. (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.

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### Three Phase Induction Motor - Squirrel Cage



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#### Thermal protection

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

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