#### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 14531030 Frame : 80 Cooling method : IC411 - TEFC Insulation class : F Mounting : 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> : 14.2 kg Protection degree : IP55 Moment of inertia (J) : 0.0009 kgm<sup>2</sup> Design : N Output [kW] 1.1 1.1 1.1 1.1 Poles 2 2 2 2 50 50 50 60 Frequency [Hz] Rated voltage [V] 220/380 230/400 240/415 460 Rated current [A] 4.16/2.41 4.17/2.40 4.20/2.43 2.08 L. R. Amperes [A] 27.5/15.9 28.4/16.3 29.4/17.0 17.7 LRC [A] 8.5 6.6 6.8 7.0 No load current [A] 1.90/1.10 2.26/1.30 2.42/1.40 1.10 Rated speed [RPM] 2815 2835 2850 3460 Slip [%] 6.17 5.50 5.00 3.89 Rated torque [Nm] 3.73 3.71 3.69 3.04 Locked rotor torque [%] 400 450 330 380 Breakdown torque [%] 290 330 360 409 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 30s (cold) 17s (hot) 28s (cold) 16s (hot) 27s (cold) 15s (hot) 28s (cold) 16s (hot) 62.0 dB(A) Noise level<sup>2</sup> 59.0 dB(A) 59.0 dB(A) 59.0 dB(A) 25% 50% 82.0 81.5 80.0 78.5 Efficiency (%) 75% 82.7 82.7 82.5 81.5 82.7 82.7 84.0 100% 82.7 25% 0.66 0.60 0.54 0.59 50% Power Factor 75% 0.78 0.73 0.67 0.71 100% 0.84 0.80 0.76 0.79 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 19.4 19.4 18.8 18.0 17.0 P2 (0,5;1,0) 17.0 16.5 15.8 P3 (0,25;1,0) 17.7 17.7 17.2 16.5 Losses (%) P4 (0,9;0,5) 9.7 9.7 9.5 9.1 P5 (0,5;0,5) 6.6 6.6 6.4 6.1 P6 (0,5;0,25) 4.5 4.5 4.3 4.1 P7 (0,25;0,25) 3.1 3.1 3.0 2.8 Drive end Non drive end Foundation loads Bearing type 6204 ZZ 6203 ZZ Max. traction : 328 N V'Ring Sealing V'Rina : 468 N 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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### Three Phase Induction Motor - Squirrel Cage



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Customer	

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

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