DATA SHEET

Performed by

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IE3 Three-Phase Product code: 12883080 Frame : 132S Cooling method : IC411 - TEFC Insulation class Mounting : B3T : F Duty cycle : S1 Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight³ : 64.7 kg Protection degree : IP55 Moment of inertia (J) : 0.0491 kgm² Design : N Output [kW] 5.5 5.5 5.5 5.5 Poles 4 4 4 4 50 50 50 60 Frequency [Hz] Rated voltage [V] 220/380 230/400 240/415 460 Rated current [A] 18.7/10.8 18.3/10.5 18.0/10.4 9.18 L. R. Amperes [A] 140/81.0 152/87.2 158/91.5 82.6 LRC [A] 9.0 7.5 8.3 8.8 9.68/5.60 No load current [A] 8.12/4.70 9.04/5.20 4.70 Rated speed [RPM] 1470 1770 1460 1465 Slip [%] 2.67 2.33 2.00 1.67 Rated torque [Nm] 35.7 29.7 36.0 35.9 Locked rotor torque [%] 229 250 250 210 Breakdown torque [%] 330 360 390 300 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 25s (cold) 14s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) 28s (cold) 16s (hot) 58.0 dB(A) Noise level² 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 89.0 89.0 89.4 90.2 Efficiency (%) 75% 89.6 89.6 89.6 91.0 89.7 91.7 100% 89.6 89.8 25% 0.71 0.66 0.63 0.65 50% Power Factor 75% 0.81 0.78 0.75 0.76 100% 0.86 0.84 0.82 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.4 11.1 8.9 P2 (0,5;1,0) 10.1 10.0 9.9 7.9 P3 (0,25;1,0) 9.8 7.7 9.7 9.6 Losses (%) P4 (0,9;0,5) 5.3 5.2 5.2 4.1 P5 (0,5;0,5) 3.9 3.8 3.8 3.0 P6 (0,5;0,25) 2.5 2.5 2.5 2.0 P7 (0,25;0,25) 1.8 1.8 1.8 1.4 Drive end Non drive end Foundation loads Bearing type 6308 ZZ 6207 ZZ Max. traction : 1827 N V'Ring V'Ring Sealing : 2461 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. Performed Checked Rev. **Changes Summary** Date

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Customer :

Thermal protection

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

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