DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customor

Customer Product line : W22 IE3 Three-Phase Product code: 12868142 Cooling method : IC411 - TEFC Frame : 71 Mounting Insulation class : F : B5T 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 : 11.5 kg Protection degree : IP55 Moment of inertia (J) : 0.0009 kgm² : N Design Output [kW] 0.25 0.25 0.25 0.25 Poles 4 4 4 4 Frequency [Hz] 50 50 60 50 Rated voltage [V] 220/380 230/400 240/415 460 Rated current [A] 1.21/0.698 1.19/0.682 1.19/0.686 0.642 L. R. Amperes [A] 5.79/3.35 5.69/3.27 5.69/3.29 3.40 LRC [A] 5.3 4.8 4.8 4.8 0.725/0.420 0.830/0.480 No load current [A] 0.783/0.450 0.430 Rated speed [RPM] 1400 1420 1720 1410 4.44 Slip [%] 6.67 6.00 5.33 Rated torque [Nm] 1.71 1.39 1.69 1.68 210 270 Locked rotor torque [%] 240 250 Breakdown torque [%] 200 240 260 290 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 54s (cold) 30s (hot) Locked rotor time 54s (cold) 30s (hot) 54s (cold) 30s (hot) 54s (cold) 30s (hot) Noise level² 43.0 dB(A) 43.0 dB(A) 43.0 dB(A) 47.0 dB(A) 25% 67.0 69.0 70.0 50% 65.1 Efficiency (%) 75% 69.1 72.0 68.6 72.0 100% 73.5 73.5 73.5 74.0 25% 0.55 0.52 0.50 0.47 50% Power Factor 75% 0.66 0.62 0.61 0.59 100% 0.74 0.72 0.69 0.66 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 36.0 36.0 35.1 P2 (0,5;1,0) 34.9 34.9 34.9 34.0 P3 (0,25;1,0) 34.2 34.2 34.2 33.3 Losses (%) P4 (0,9;0,5) 19.1 19.1 19.1 18.6 P5 (0,5;0,5) 15.0 15.0 15.0 14.6 P6 (0,5;0,25) 11.3 11.3 11.3 11.0 P7 (0,25;0,25) 8.9 8.9 8.9 8.7 Non drive end Foundation loads Drive end Bearing type 6202 ZZ 6202 ZZ : 87 N Max. traction Oil Seal Lip Seal : 200 N Sealing 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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Customer :

Thermal protection

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

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