DATA SHEET

Checked by

Date

30/08/2023

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE3 Three-Phase Product code: 12862441 Frame : 200L Cooling method : IC411 - TEFC Insulation class Mounting : B5T : 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 : 260 kg Protection degree : IP55 Moment of inertia (J) : 0.2368 kgm² Design : N 37 37 37 Output [kW] 37 Poles 2 2 2 2 50 50 Frequency [Hz] 50 60 Rated voltage [V] 380/660 400/690 415 460 Rated current [A] 69.8/40.2 67.9/39.4 67.0 60.2 L. R. Amperes [A] 530/305 523/303 543 500 LRC [A] 8.1 8.3 7.6 7.7 No load current [A] 24.0/13.8 27.0/15.7 29.5 26.0 Rated speed [RPM] 2970 2970 3575 2965 Slip [%] 1.17 1.00 1.00 0.69 Rated torque [Nm] 98.9 119 119 119 Locked rotor torque [%] 380 300 330 360 Breakdown torque [%] 330 360 380 300 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 19s (cold) 11s (hot) 18s (cold) 10s (hot) 16s (cold) 9s (hot) 23s (cold) 13s (hot) Noise level² 72.0 dB(A) 72.0 dB(A) 72.0 dB(A) 76.0 dB(A) 25% 50% 93.0 92.6 92.0 91.5 Efficiency (%) 75% 93.6 93.4 93.2 93.0 100% 93.7 93.7 93.7 93.0 25% 0.74 0.69 0.63 0.68 50% Power Factor 75% 0.83 0.79 0.76 0.78 100% 0.86 0.84 0.82 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.4 6.4 6.4 7.1 P2 (0,5;1,0) 5.1 5.1 5.1 5.7 P3 (0,25;1,0) 4.8 4.8 4.8 5.4 Losses (%) P4 (0,9;0,5) 3.4 3.4 3.4 3.8 P5 (0,5;0,5) 2.1 2.1 2.1 2.4 1.5 P6 (0,5;0,25) 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 6312 ZZ C3 6212 ZZ C3 Max. traction : 3451 N Sealing Oil Seal Lip Seal : 6001 N Max. compression Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type 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 Performed by

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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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