DATA SHEET

Checked by

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE3 Three-Phase Product code: 12862520 Frame : 63 Cooling method : IC411 - TEFC Insulation class Mounting : 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 : 8.1 kg Protection degree : IP55 Moment of inertia (J) : 0.0006 kgm² Design : N Output [kW] 0.18 0.18 0.18 0.18 Poles 4 4 4 4 50 50 50 60 Frequency [Hz] Rated voltage [V] 220/380 230/400 240/415 460 Rated current [A] 0.902/0.522 0.897/0.516 0.885/0.512 0.468 3.79/2.19 4.13/2.37 L. R. Amperes [A] 4.43/2.56 2.57 LRC [A] 4.2 5.5 4.6 5.0 No load current [A] 0.605/0.350 0.661/0.380 0.692/0.400 0.360 Rated speed [RPM] 1395 1705 1365 1380 Slip [%] 9.00 8.00 7.00 5.28 Rated torque [Nm] 1.25 1.23 1.01 1.26 Locked rotor torque [%] 200 220 240 270 Breakdown torque [%] 200 220 240 280 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 54s (cold) 30s (hot) 54s (cold) 30s (hot) 54s (cold) 30s (hot) 72s (cold) 40s (hot) 48.0 dB(A) Noise level² 44.0 dB(A) 44.0 dB(A) 44.0 dB(A) 25% 50% 65.0 65.0 65.0 62.0 Efficiency (%) 75% 67.0 66.0 67.0 67.0 69.9 69.9 100% 69.9 70.0 25% 0.57 0.53 0.50 0.50 50% Power Factor 75% 0.67 0.63 0.61 0.60 100% 0.75 0.72 0.70 0.69 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 43.9 43.9 43.9 43.7 P2 (0,5;1,0) 42.7 42.7 42.7 42.5 P3 (0,25;1,0) 38.7 38.7 38.7 38.6 Losses (%) P4 (0,9;0,5) 21.6 21.6 21.6 21.5 P5 (0,5;0,5) 17.3 17.3 17.3 17.2 P6 (0,5;0,25) 12.8 12.8 12.8 12.7 P7 (0,25;0,25) 9.8 9.8 9.8 9.8 Drive end Non drive end Foundation loads Bearing type 6201 ZZ 6201 ZZ Max. traction : 73 N Sealing Oil Seal Lip Seal : 152 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 Performed by

Date	30/08/2023		1/2						
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