DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE3 Three-Phase Product code: 12862423 : 63 Cooling method : IC411 - TEFC Frame 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 : 7.8 kg Protection degree : IP55 Moment of inertia (J) : 0.0002 kgm² : N Design Output [kW] 0.18 0.18 0.18 0.18 Poles 2 2 2 2 50 50 50 60 Frequency [Hz] Rated voltage [V] 220/380 230/400 240/415 460 Rated current [A] 0.955/0.553 0.965/0.555 0.953/0.551 0.496 L. R. Amperes [A] 4.97/2.88 5.21/3.00 5.34/3.09 3.22 LRC [A] 5.2 6.5 5.4 5.6 0.674/0.390 0.748/0.430 0.795/0.460 No load current [A] 0.400 Rated speed [RPM] 2835 2855 2860 3465 Slip [%] 3.75 5.50 4.83 4.67 Rated torque [Nm] 0.607 0.602 0.601 0.496 Locked rotor torque [%] 260 300 350 380 Breakdown torque [%] 290 320 350 420 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 39s (cold) 22s (hot) 39s (cold) 22s (hot) 39s (cold) 22s (hot) 39s (cold) 22s (hot) Noise level² 52.0 dB(A) 52.0 dB(A) 52.0 dB(A) 56.0 dB(A) 25% 50% 62.6 59.6 57.5 61.0 Efficiency (%) 75% 65.9 65.9 65.2 64.0 100% 65.9 65.9 65.9 66.0 25% 0.53 0.50 0.48 0.49 50% Power Factor 75% 0.65 0.61 0.59 0.59 100% 0.75 0.71 0.69 0.69 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 47.4 47.4 47.4 47.2 P2 (0,5;1,0) 39.6 39.6 39.6 39.4 P3 (0,25;1,0) 44.7 44.7 44.7 44.5 Losses (%) P4 (0,9;0,5) 32.9 32.9 32.9 32.7 P5 (0,5;0,5) 22.9 22.9 22.9 22.8 P6 (0,5;0,25) 20.2 20.2 20.2 20.1 P7 (0,25;0,25) 14.4 14.4 14.4 14.4 Drive end Non drive end Foundation loads Bearing type 6201 ZZ 6201 ZZ Max. traction : 44 N Sealing Oil Seal Lip Seal : 121 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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