DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 12862443 : 250S/M Frame 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 : 473 kg Protection degree : IP55 Moment of inertia (J) : 0.3736 kgm² Design : N Output [kW] 55 55 55 55 2 Poles 2 2 2 50 50 50 60 Frequency [Hz] Rated voltage [V] 380/660 400/690 415 460 Rated current [A] 101/58.0 97.9/56.7 95.4 85.8 L. R. Amperes [A] 755/435 783/454 811 763 LRC [A] 7.5 8.5 8.9 8.0 No load current [A] 32.0/18.4 35.0/20.3 37.0 32.0 Rated speed [RPM] 2968 2970 3572 2963 Slip [%] 1.23 1.07 0.78 1.00 Rated torque [Nm] 177 177 147 177 Locked rotor torque [%] 260 310 350 280 Breakdown torque [%] 290 330 360 370 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 16s (cold) 9s (hot) 16s (cold) 9s (hot) 18s (cold) 10s (hot) Locked rotor time 14s (cold) 8s (hot) Noise level² 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 79.0 dB(A) 25% 50% 93.5 93.3 93.1 92.2 Efficiency (%) 75% 94.0 94.0 94.0 93.6 94.3 94.3 94.4 100% 93.6 25% 50% 0.78 0.75 0.72 0.73 Power Factor 75% 0.85 0.83 0.81 0.82 100% 0.88 0.86 0.85 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.7 5.6 6.5 P2 (0,5;1,0) 4.7 4.7 4.6 5.3 P3 (0,25;1,0) 4.6 4.6 4.5 5.1 Losses (%) P4 (0,9;0,5) 2.9 2.9 2.8 3.2 P5 (0,5;0,5) 1.8 1.8 1.8 2.0 P6 (0,5;0,25) 1.1 1.1 1.1 1.3 P7 (0,25;0,25) 0.7 0.7 0.7 8.0 Foundation loads Drive end Non drive end 6314 C3 Bearing type 6314 C3 Max. traction : 3041 N Sealing Oil Seal Oil Seal : 7684 N Max. compression Lubrication interval 5000 h 5000 h Lubricant amount 27 g 27 g 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.

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Three Phase Induction Motor - Squirrel Cage



Customer :

Thermal protection

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

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