DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Cooling Tower NEMA Premium Product code: 14409276 Efficiency Three-Phase Catalog #: 10018AT3ECT405TF1-W2 Frame : 404/5T Locked rotor time : 23s (cold) 13s (hot) Output : 100 HP (75 kW) Temperature rise : 80 K Poles : 4 Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 1000 m.a.s.l. : 208-230/460 V Altitude Rated current : 245-226/113 A Protection degree : IP55 L. R. Amperes Cooling method : IC418 - TEAO : 1792-1650/825 A LRC : 7.3x(Code H) Mounting : F-1 No load current : 65.5-76.0/38.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1780 rpm Noise level² : 68.0 dB(A) Starting method Slip : 1.11 % : Direct On Line Rated torque : 295 ft.lb Approx. weight³ : 1146 lb : 240 % Locked rotor torque Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 29.9 sq.ft.lb Design : B 100% Output 25% 50% 75% Foundation loads Efficiency (%) 94.6 93.4 95.0 94.0 95.0 94.4 95.4 95.0 Max. traction : 2099 lb 93.3 93.0 93.9 93.6 94.5 94.5 95.0 95.0 94.8 94.7 94.5 94.5 94.1 94.5 93.6 94.1 94.4 94.5 94.5 94.5 0.51 0.47 0.77 0.72 0.84 0.83 0.87 0.86 Power Factor Max. compression : 3245 lb 0.44 0.41 0.69 0.66 0.81 0.79 0.85 0.84 0.57 0.53 0.82 0.79 0.86 0.85 0.88 0.88 0.51 0.77 0.84 0.87 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0.9:1.0) 4.7 4.7 4.7 4.7 4.7 P2 (0,5;1,0) 3.8 3.8 3.8 3.8 3.8 3.8 3.8 P3 (0,25;1,0) 3.7 3.7 3.7 3.7 3.7 3.7 3.7 P4 (0,9;0,5) Losses (%) 2.2 2.2 2.2 2.2 2.2 2.2 2.2 P5 (0,5;0,5) 1.5 1.5 1.5 1.5 1.5 1.5 1.5 P6 (0,5;0,25) 0.9 0.9 0.9 0.9 0.9 0.9 0.9 P7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 (0,25;0,25)Drive end Non drive end Bearing type 6316 2RS C3 6314 2RS C3 Sealing **WSeal WSeal** Lubrication interval Lubricant amount POLYREA ESTER OIL (WT/ ENS) Lubricant type Notes: 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 NEMA (1) Looking the motor from the shaft end. MG-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	:						
Voltage: 110-127	7/200-240 V	Space heater informa	ation				
Voltage: 110-127	7200-240 V						
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