DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 16684655 Three-Phase Catalog #: 04018ST3QAP324T-W22 Frame : 324/6T Locked rotor time : 36s (cold) 20s (hot) Output : 40 HP (30 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 460 V : 1000 m.a.s.l. Rated voltage Altitude Rated current : 47.1 A Protection degree : IP56 L. R. Amperes : 287 A Cooling method : IC411 - TEFC : 6.1x(Code G) LRC Mounting : W-8 No load current : 17.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1775 rpm Noise level² : 66.0 dB(A) Slip : 1.39 % Starting method : Direct On Line Rated torque : 118 ft.lb Approx. weight³ : 574 lb Locked rotor torque : 229 % : 240 % Breakdown torque Insulation class : F Service factor : 1.15 Moment of inertia (J) : 9.16 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 93.5 92.9 93.6 92.9 94.1 93.1 94.1 93.0 Max. traction : 974 lb 92.1 91.1 92.4 91.7 93.0 92.6 93.2 93.1 94.0 93.5 93.6 93.6 93.0 93.0 92.4 93.0 92.8 93.0 93.0 93.0 0.46 0.43 0.72 0.68 0.80 0.78 0.85 0.84 Power Factor Max. compression : 1548 lb 0.40 0.38 0.64 0.62 0.75 0.73 0.82 0.80 0.53 0.49 0.78 0.74 0.84 0.82 0.86 0.86 0.47 0.72 0.80 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0.9:1.0) 6.1 6.1 6.1 6.1 6.1 P2 (0,5;1,0) 5.1 5.1 5.1 5.1 5.1 5.1 5.1 P3 (0,25;1,0) 4.9 4.9 4.9 4.9 4.9 4.9 4.9 P4 (0,9;0,5) Losses (%) 2.8 2.8 2.8 2.8 2.8 2.8 2.8 P5 (0,5;0,5) 1.9 1.9 1.9 1.9 1.9 1.9 1.9 P6 (0,5;0,25) 1.2 1.2 1.2 1.2 1.2 1.2 1.2 P7 8.0 8.0 8.0 8.0 8.0 8.0 8.0 (0,25;0,25)Drive end Non drive end Bearing type NU-312 C3 6212 C3 Sealing Inpro/Seal Inpro/Seal 10000 h Lubrication interval 15000 h Lubricant amount 21 g 13 g Mobil Polyrex EM 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.

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	25/03/2024			1/1	