DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 16684657 Three-Phase Catalog #: 03018ST3QAP286T-W22 Locked rotor time Frame : 284/6T : 36s (cold) 20s (hot) Output : 30 HP (22 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 460 V Altitude : 1000 m.a.s.l. Rated current Protection degree : IP56 : 35.1 A L. R. Amperes : 214 A Cooling method : IC411 - TEFC LRC : 6.1x(Code G) Mounting : W-8 No load current : 12.3 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 63.0 dB(A) Slip : 1.67 % Starting method : Direct On Line Rated torque : 89.0 ft.lb Approx. weight³ : 450 lb Locked rotor torque : 240 % : 240 % Breakdown torque Insulation class : F Service factor : 1.15 Moment of inertia (J) : 5.85 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 92.3 89.8 93.0 90.0 93.0 90.2 93.6 90.2 Max. traction : 947 lb 90.3 91.0 90.5 91.2 91.0 91.7 91.0 91.7 Power Factor 0.46 0.53 0.70 0.76 0.80 0.83 0.84 0.86 Max. compression : 1397 lb 0.50 0.46 0.73 0.70 0.82 0.80 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.8 6.8 6.8 6.8 P2 (0,5;1,0) 5.8 5.8 5.8 5.8 P3 (0,25;1,0) 5.2 5.2 5.2 5.2 Losses (%) P4 (0,9;0,5) 3.1 3.1 3.1 3.1 P5 (0,5;0,5) 2.2 2.2 2.2 2.2 P6 (0,5;0,25) 1.4 1.4 1.4 1.4 P7 (0,25;0,25) 0.9 0.9 0.9 0.9 Non drive end Drive end Bearing type NU-311 C3 6211 C3 Inpro/Seal Sealing Inpro/Seal 12000 h 17000 h Lubrication interval Lubricant amount 18 g 11 g Lubricant type Mobil Polyrex EM 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	