DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11431928 Three-Phase Catalog #: 03036ST3QIE286TS-W22 Frame : 284/6TS Locked rotor time : 27s (cold) 15s (hot) Output : 30 HP (22 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 1000 m.a.s.l. : 460 V Altitude Rated current : 34.6 A Protection degree : IP56 L. R. Amperes : 218 A Cooling method : IC411 - TEFC LRC : 6.3x(Code G) Mounting : F-1 No load current : 9.90 A Rotation¹ : Both (CW and CCW) Rated speed : 3549 rpm Noise level² : 72.0 dB(A) Starting method Slip : 1.42 % : Direct On Line Rated torque : 44.4 ft.lb Approx. weight³ : 402 lb Locked rotor torque : 240 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.37 sq.ft.lb Design : B 50% 75% 100% Foundation loads Output Efficiency (%) 91.7 91.5 91.7 92.4 91.7 91.0 Max. traction : 359 lb 91.5 91.8 92.4 92.4 91.1 91.2 89.0 90.0 89.5 90.2 89.5 90.2 91.0 91.0 91.0 Power Factor 0.77 0.80 0.85 0.86 0.87 0.88 Max. compression : 761 lb 0.76 0.74 0.87 0.86 0.84 0.82 0.83 0.80 0.88 0.86 0.89 0.88 0.78 0.85 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0.9:1.0) 8.5 7.7 7.7 10.2 9.3 P2 (0,5;1,0) 6.7 6.1 6.1 6.1 8.6 8.0 7.3 P3 (0,25;1,0) 6.4 5.8 5.8 5.8 8.3 7.7 7.0 P4 (0,9;0,5) Losses (%) 4.2 3.8 3.8 3.8 5.5 5.1 4.6 P5 (0,5;0,5) 2.5 2.3 2.3 2.3 3.3 3.0 2.8 P6 (0,5;0,25) 1.6 1.4 1.4 1.4 2.0 1.9 1.7 P7 1.0 0.9 0.9 0.9 1.1 1.0 (0,25;0,25)Drive end Non drive end Bearing type 6311 C3 6211 C3 Inpro/Seal Inpro/Seal Sealing Lubrication interval 14000 h 17000 h 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.

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