DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11443945 Catalog #: 03018ET3E286T-W22 Frame : 284/6T Locked rotor time : 36s (cold) 20s (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 : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 70.2/35.1 A Protection degree : IP55 L. R. Amperes : 428/214 A Cooling method : IC411 - TEFC LRC : 6.1x(Code G) Mounting : F-1 No load current : 24.6/12.3 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 63.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 89.0 ft.lb Approx. weight³ : 436 lb Locked rotor torque : 240 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 5.85 sq.ft.lb Design : B 25% 100% Output 50% 75% Foundation loads Efficiency (%) 0.000 93.0 92.1 93.0 92.5 93.6 92.6 Max. traction : 907 lb 92.1 91.6 92.8 92.5 92.7 92.6 0.000 90.0 90.5 90.2 91.0 90.2 91.0 91.2 91.7 91.7 0.00 0.00 0.70 0.70 0.80 0.81 0.84 0.85 Power Factor Max. compression : 1344 lb 0.67 0.64 0.79 0.76 0.84 0.82 0.76 0.73 0.83 0.82 0.86 0.85 0.70 0.80 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 6.8 6.8 P2 (0,5;1,0) 5.8 5.8 5.8 5.8 5.8 5.8 5.8 P3 (0,25;1,0) 5.2 5.2 5.2 5.2 5.2 5.2 5.2 P4 (0,9;0,5) Losses (%) 3.1 3.1 3.1 3.1 3.1 3.1 3.1 P5 (0,5;0,5) 2.2 2.2 2.2 2.2 2.2 2.2 2.2 P6 (0,5;0,25) 1.4 1.4 1.4 1.4 1.4 1.4 1.4 P7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 (0,25;0,25)Drive end Non drive end Bearing type 6311 C3 6211 C3 Sealing V'Ring V'Ring Lubrication interval 20000 h 20000 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

(+) At 100 /0 01 10	iii load.				
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	28/03/2024			1 / 1	