DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12424790 Catalog #: 02518ET3E284T-W22 Frame Locked rotor time : 43s (cold) 24s (hot) : 284/6T Output : 25 HP (18.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 1000 m.a.s.l. Rated voltage : 230/460 V Altitude : IP55 Rated current : 59.0/29.5 A Protection degree L. R. Amperes : 366/183 A Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-1 No load current : 22.0/11.0 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 : 74.2 ft.lb Approx. weight³ : 397 lb : 240 % Locked rotor torque Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 5.11 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads Efficiency (%) 92.4 91.3 93.0 92.1 93.6 92.1 Max. traction : 817 lb 91.3 91.2 92.5 92.5 92.6 92.7 92.4 92.4 91.7 92.4 91.0 91.7 92.4 92.4 92.4 Power Factor 0.70 0.69 0.80 0.80 0.84 0.85 Max. compression : 1215 lb 0.83 0.82 0.65 0.62 0.78 0.75 0.76 0.73 0.84 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) 5.3 5.3 5.3 5.3 5.3 5.3 5.3 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 1.0 1.0 1.0 1.0 1.0 1.0 1.0 (0,25;0,25)Drive end Non drive end Bearing type 6311 C3 6211 C3 Sealing V'Ring V'Ring 20000 h Lubrication interval 20000 h Lubricant amount 18 g 11 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	28/03/2024				1/1	