DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12216742 Catalog #: 00158ET3ER145TC-W22 : 145TC Locked rotor time Frame : 25s (cold) 14s (hot) Output : 1.5 HP (1.1 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 Altitude : 1000 m.a.s.l. Rated current : 4.04/2.02 A Protection degree : IP55 L. R. Amperes Cooling method : IC411 - TEFC : 33.9/17.0 A LRC : 8.4x(Code L) Mounting : W-6 No load current : 2.20/1.10 A Rotation¹ : Both (CW and CCW) Rated speed : 1755 rpm Noise level² : 51.0 dB(A) Slip : 2.50 % Starting method : Direct On Line Rated torque : 4.49 ft.lb Approx. weight³ : 50.9 lb Locked rotor torque : 290 % Breakdown torque : 350 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.1431 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 81.3 82.0 82.5 82.5 85.5 84.0 86.5 84.1 Max. traction : 126 lb 82.1 80.5 82.5 81.0 84.0 84.0 84.1 84.1 Power Factor 0.35 0.41 0.60 0.67 0.70 0.76 0.79 0.82 : 177 lb Max. compression 0.37 0.34 0.63 0.60 0.74 0.70 0.81 0.79 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 14.6 14.6 14.6 14.6 P2 (0,5;1,0) 12.1 12.1 12.1 12.1 P3 (0,25;1,0) 12.2 12.2 12.2 12.2 Losses (%) P4 (0,9;0,5) 8.2 8.2 8.2 8.2 P5 (0,5;0,5) 5.7 5.7 5.7 5.7 P6 (0,5;0,25) 4.3 4.3 4.3 4.3 P7 (0,25;0,25) 3.2 3.2 3.2 3.2 Non drive end **Drive end** Bearing type 6205 ZZ 6204 ZZ V'Ring Sealing V'Ring Lubrication interval Lubricant amount 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		Perfo	Performed		Date
Performed by			•			
Checked by					Page	Revision
Date	26/03/2024				1 / 1	