DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12176656 Three-Phase Catalog #: 15009ST3QIE447T-W22 : 445/7T Locked rotor time Frame : 27s (cold) 15s (hot) Output : 150 HP (110 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. : IP56 Rated current : 185 A Protection degree L. R. Amperes Cooling method : IC411 - TEFC : 1110 A LRC : 6.0x(Code G) Mounting : F-1 No load current : 75.0 A Rotation¹ : Both (CW and CCW) Rated speed : 890 rpm Noise level² : 63.0 dB(A) Slip : 1.11 % Starting method : Direct On Line Rated torque : 885 ft.lb Approx. weight³ : 2206 lb Locked rotor torque : 190 % : 210 % Breakdown torque Insulation class : F Service factor : 1.15 Moment of inertia (J) : 125 sq.ft.lb Design : B Output 25% 50% 75% 100% Foundation loads Efficiency (%) 94.4 94.9 94.5 94.5 94.5 94.1 94.5 93.6 Max. traction : 4809 lb 94.0 93.5 94.1 93.6 94.1 94.1 94.1 94.1 Power Factor 0.40 0.40 0.64 0.65 0.74 0.75 0.79 0.80 Max. compression : 7015 lb 0.37 0.34 0.61 0.57 0.72 0.69 0.78 0.76 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.9 5.9 5.9 5.9 P2 (0,5;1,0) 4.8 4.8 4.8 4.8 P3 (0,25;1,0) 4.4 4.4 4.4 4.4 Losses (%) P4 (0,9;0,5) 2.9 2.9 2.9 2.9 P5 (0,5;0,5) 2.0 2.0 2.0 2.0 P6 (0,5;0,25) 1.4 1.4 1.4 1.4 P7 (0,25;0,25) 1.0 1.0 1.0 1.0 Non drive end **Drive end** Bearing type 6319 C3 6316 C3 Inpro/Seal Inpro/Seal Sealing 20000 h Lubrication interval 17000 h Lubricant amount 45 g 34 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		Р	erformed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	25/03/2024				1/1	