DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12378984 Three-Phase Catalog #: 00736ST3QIE213T-W22 Frame Locked rotor time : 213/5T : 39s (cold) 22s (hot) Output : 7.5 HP (5.5 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 : 460 V Altitude Rated current : 8.97 A Protection degree : IP56 L. R. Amperes : 64.6 A Cooling method : IC411 - TEFC LRC : 7.2x(Code H) Mounting : F-1 No load current : 3.20 A Rotation¹ : Both (CW and CCW) Rated speed : 3525 rpm Noise level² : 68.0 dB(A) Slip : 2.08 % Starting method : Direct On Line Rated torque : 11.2 ft.lb Approx. weight³ : 150 lb : 210 % Locked rotor torque Breakdown torque : 290 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.4665 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 87.5 86.7 89.5 88.2 89.5 88.2 Efficiency (%) Max. traction : 138 lb 86.4 86.1 88.3 88.5 88.3 88.5 88.5 87.5 88.5 88.5 87.5 87.5 87.5 88.5 88.5 Power Factor 0.74 0.68 0.83 0.80 0.86 0.84 Max. compression : 288 lb 0.82 0.80 0.66 0.62 0.76 0.73 0.80 0.76 0.86 0.85 0.89 0.88 0.74 0.82 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.2 12.8 12.7 12.4 13.6 13.6 12.4 P2 (0,5;1,0) 8.7 9.9 9.8 9.6 10.6 10.6 9.6 P3 (0,25;1,0) 7.6 8.7 8.6 8.4 9.2 9.2 8.4 P4 (0,9;0,5) Losses (%) 6.0 6.9 6.8 6.7 7.3 7.3 6.7 P5 (0,5;0,5) 3.6 4.1 4.0 4.0 4.3 4.3 4.0 P6 (0,5;0,25) 2.4 2.8 2.7 2.7 2.9 2.9 2.7 P7 1.5 1.7 1.7 1.6 1.8 1.8 1.6 (0,25;0,25)Drive end Non drive end Bearing type 6308 C3 6207 C3 Sealing Inpro/Seal Inpro/Seal 20000 h Lubrication interval 20000 h Lubricant amount 11 g 7 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	26/03/2024				1/1	