DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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Customer Product line : W22 High Efficiency Three-Phase Product code: 12822569 Frame : 145TC : 19s (cold) 11s (hot) Locked rotor time Output Temperature rise : 2 HP (1.5 kW) : 80 K Poles Duty cycle : Cont.(S1) : 4 Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 230/460 V Altitude : 1000 m.a.s.l. Rated current : 5.98/2.99 A Protection degree : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 41.9/20.9 A LRC : 7.0x(Code K) Mounting : W-6 No load current : 3.52/1.76 A Rotation¹ : Both (CW and CCW) Rated speed : 1745 rpm Noise level² : 51.0 dB(A) Slip : 3.06 % Starting method : Direct On Line Rated torque : 6.02 ft.lb Approx. weight3 : 52.6 lb Locked rotor torque : 240 % Breakdown torque : 280 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.1296 sq.ft.lb Design Output 25% 50% 75% 100% Foundation loads Efficiency (%) 82.2 82.2 82.5 82.5 84.0 82.5 84.0 82.5 Max. traction : 132 lb 82.2 82.2 82.5 82.5 82.5 82.5 82.5 82.5 Power Factor 0.30 0.36 0.54 0.61 0.66 0.71 0.75 0.79 Max. compression : 185 lb 0.33 0.30 0.57 0.54 0.68 0.66 0.77 0.75 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 18.5 20.6 20.6 20.6 P2 (0,5;1,0) 16.7 18.6 18.6 18.6 P3 (0,25;1,0) 16.3 18.1 18.1 18.1 Losses (%) P4 (0,9;0,5) 10.4 11.6 11.6 11.6 P5 (0,5;0,5) 7.8 8.7 8.7 8.7 6.3 P6 (0,5;0,25) 7.0 7.0 7.0 P7 (0,25;0,25) 4.7 5.3 5.3 5.3 Drive end Non drive end Bearing type 6205 ZZ 6204 ZZ Sealing V'Ring V'Ring Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM Notes:

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	28/03/2024			1/1	