DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : Rolled Steel NEMA Premium Product code: 14802850 Efficiency Three-Phase : 143/5TC Locked rotor time Frame : 18s (cold) 10s (hot) Output : 3 HP (2.2 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 2 : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 1000 m.a.s.l. Rated voltage : 230/460 V Altitude Rated current : 7.02/3.51 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 66.7/33.3 A Cooling method LRC : 9.5x(Code K) Mounting : F-1 : Both (CW and CCW) No load current : 2.56/1.28 A Rotation¹ Rated speed : 3500 rpm Noise level² : 68.0 dB(A) Slip : 2.78 % Starting method : Direct On Line Rated torque : 0.622 kgfm Approx. weight³ : 22.8 kg Locked rotor torque : 300 % Breakdown torque : 380 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.0070 kgm² Design : B 50% 75% 100% Output Foundation loads Efficiency (%) 84.0 86.5 86.5 Max. traction : 61 kgf : 84 kgf Power Factor 0.78 0.87 0.91 Max. compression Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P3 (0,25;1,0) P4 (0,9;0,5) P1 (0,9;1,0) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 14.5 10.8 9.9 8.0 4.4 3.0 1.7 Drive end Non drive end Bearing type 6205 ZZ 6203 ZZ Sealing

V'Ring Without Bearing Seal

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

USABLE @208V 7.76A SF 1.00 SFA 7.76A

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.

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

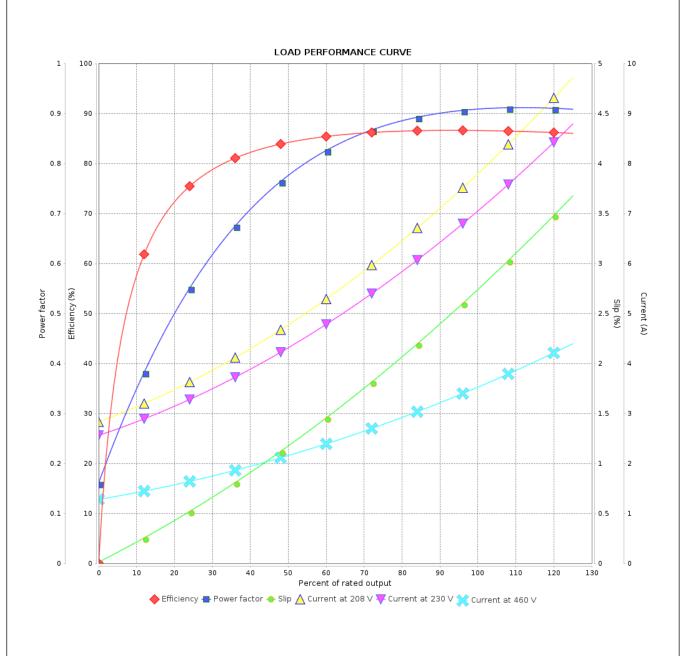


Customer :

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 14802850



Performance	: 230/460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.02/3.51 A : 9.5 : 0.622 kgfm : 300 % : 380 % : 3500 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0070 kgm ² : Cont.(S1) : F : : 80 K : B	2
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Date

