DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 14581195 : 182/4T Locked rotor time Frame : 45s (cold) 25s (hot) Output : 5 HP (3.7 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 2 Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Rated voltage : 460 V Altitude Rated current Protection degree : IP55 : 5.90 A : IC411 - TEFC L. R. Amperes : 44.8 A Cooling method **LRC** : 7.6x(Code J) Mounting : F-1 : Both (CW and CCW) No load current : 2.00 A Rotation¹ Rated speed : 3485 rpm Noise level² : 69.0 dB(A) Slip : 3.19 % Starting method : VFD Rated torque : 1.04 kgfm Approx. weight³ : 50.0 kg Locked rotor torque : 229 % Breakdown torque : 350 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.0094 kgm² Design 25% 50% 75% 100% Output Foundation loads Efficiency (%) 0.000 86.5 88.5 88.5 Max. traction : 51 kgf : 101 kgf Power Factor 0.00 0.76 0.85 0.89 Max. compression Non drive end Drive end Bearing type 6207 C3 6206 C3 Inpro/Seal Inpro/Seal Sealing 20000 h Lubrication interval 20000 h Lubricant amount 7 g 5 g 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 |
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

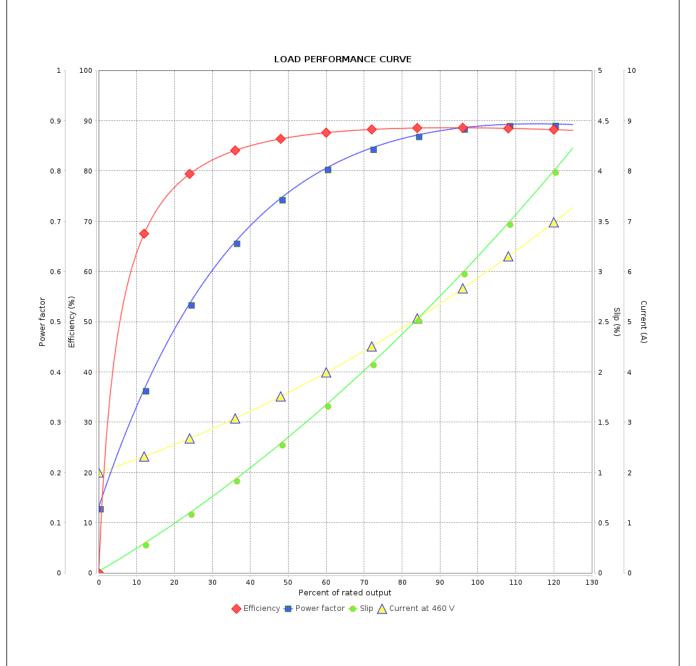
Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code:

14581195

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| Performance | : 460 V 60 Hz 2P | | | | | | | |
|--|--|--|-----------|--|----------|--|--|--|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 5.90 A : 7.6 : 1.04 kgfm : 229 % : 350 % : 3485 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.0094 kgm² : Cont.(S1) : F : 1.25 : 80 K : B | | | | |
| Rev. | Changes Summary | | Performed | Checked | Date | | | |
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15/01/2024

Date