

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase
Product code : 12172564
Catalog # : 00589EP3QCT184V-W22

| | | | |
|-----------------------|-------------------|-----------------------------|-----------------------|
| Frame | : 182/4T | Locked rotor time | : 12s (cold) 7s (hot) |
| Output | : 5 HP (3.7 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 460 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 6.67 A | Protection degree | : IP55 |
| L. R. Amperes | : 49.4 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.4x(Code J) | Mounting | : F-2 |
| No load current | : 3.70 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1750 rpm | Noise level ² | : 58.0 dB(A) |
| Slip | : 2.78 % | Starting method | : Direct On Line |
| Rated torque | : 15.0 ft.lb | Approx. weight ³ | : 102 lb |
| Locked rotor torque | : 200 % | | |
| Breakdown torque | : 300 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 0.4461 sq.ft.lb | | |

| Output | 25% | 50% | 75% | 100% | Foundation loads | | | | | |
|----------------|------|------|------|------|------------------|------|------|------|------------------|----------|
| Efficiency (%) | 83.2 | 64.0 | 84.0 | 66.0 | 86.5 | 72.0 | 87.0 | 74.0 | Max. traction | : 55 lb |
| Power Factor | 0.34 | 0.19 | 0.58 | 0.34 | 0.72 | 0.44 | 0.80 | 0.52 | Max. compression | : 157 lb |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6207 2RS | 6206 2RS |
| 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 |
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| Checked by | | | | |
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Customer :

Space heater information

Voltage: 110-127/200-240 V

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