

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase
Product code : 12172936
Catalog # : 00589EP3QCT215V2-W22

| | | | |
|-----------------------|-----------------|-----------------------------|------------------------|
| Frame | : 213/5T | Locked rotor time | : 18s (cold) 10s (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 | : 6.55 A | Protection degree | : IP55 |
| L. R. Amperes | : 64.8 A | Cooling method | : IC411 - TEFC |
| LRC | : 9.9x(Code M) | Mounting | : F-2 |
| No load current | : 3.90 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1780 rpm | Noise level ² | : 61.0 dB(A) |
| Slip | : 1.11 % | Starting method | : Direct On Line |
| Rated torque | : 14.8 ft.lb | Approx. weight ³ | : 180 lb |
| Locked rotor torque | : 220 % | | |
| Breakdown torque | : 300 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 1.56 sq.ft.lb | | |

| Output | 25% | 50% | 75% | 100% | Foundation loads | | | | | |
|----------------|------|------|------|------|------------------|------|------|------|------------------|----------|
| Efficiency (%) | 82.1 | 65.4 | 84.0 | 68.0 | 86.5 | 74.0 | 88.5 | 77.0 | Max. traction | : 22 lb |
| Power Factor | 0.35 | 0.15 | 0.61 | 0.30 | 0.72 | 0.39 | 0.80 | 0.48 | Max. compression | : 202 lb |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6308 2RS | 6207 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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| Date | 28/03/2024 | | | |
| | | | Revision | |

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Customer :

Space heater information

Voltage: 110-127/200-240 V

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| | | | | | |
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| Date | 28/03/2024 | | | | |