

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase
Product code : 12173267
Catalog # : 02089EP3QCT256VF1-W2

| | | | |
|-----------------------|-----------------|-----------------------------|-----------------------|
| Frame | : 254/6T | Locked rotor time | : 14s (cold) 8s (hot) |
| Output | : 20 HP (15 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 | : 26.1 A | Protection degree | : IP55 |
| L. R. Amperes | : 185 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.1x(Code J) | Mounting | : F-1 |
| No load current | : 11.3 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1770 rpm | Noise level ² | : 64.0 dB(A) |
| Slip | : 1.67 % | Starting method | : Direct On Line |
| Rated torque | : 59.3 ft.lb | Approx. weight ³ | : 326 lb |
| Locked rotor torque | : 270 % | | |
| Breakdown torque | : 280 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 3.10 sq.ft.lb | | |

| | | | | | | | | | | |
|----------------|------|------|------|------|------------------|------|------|------|------------------|----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | | | | | |
| Efficiency (%) | 86.6 | 77.3 | 87.5 | 78.5 | 89.5 | 81.5 | 90.2 | 82.5 | Max. traction | : 93 lb |
| Power Factor | 0.38 | 0.21 | 0.60 | 0.36 | 0.73 | 0.48 | 0.80 | 0.56 | Max. compression | : 419 lb |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6309 2RS C3 | 6209 2RS C3 |
| 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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| Performed by | | | | |
| Checked by | | | | |
| Date | 28/03/2024 | | | |

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Revision

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Customer :

Space heater information

Voltage: 110-127/200-240 V

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