

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower NEMA Premium Efficiency Three-Phase

Product code : 12095766

Catalog # : 06018ET3PCT364T-W22

| | | | |
|-----------------------|-----------------|-----------------------------|------------------------|
| Frame | : 364/5T | Locked rotor time | : 27s (cold) 15s (hot) |
| Output | : 60 HP (45 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 200 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 165 A | Protection degree | : IP55 |
| L. R. Amperes | : 1021 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.2x(Code G) | Mounting | : F-2 |
| No load current | : 64.4 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1780 rpm | Noise level ² | : 67.0 dB(A) |
| Slip | : 1.11 % | Starting method | : Direct On Line |
| Rated torque | : 177 ft.lb | Approx. weight ³ | : 859 lb |
| Locked rotor torque | : 220 % | | |
| Breakdown torque | : 240 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 22.4 sq.ft.lb | | |
| Design | : B | | |

| | | | | |
|----------------|------|------|------|------|
| Output | 25% | 50% | 75% | 100% |
| Efficiency (%) | 93.5 | 94.1 | 94.5 | 95.0 |
| Power Factor | 0.45 | 0.71 | 0.80 | 0.83 |

Foundation loads

Max. traction : 1025 lb
Max. compression : 1883 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 5.1 | 4.1 | 3.8 | 2.6 | 1.7 | 1.2 | 0.8 |

Drive end

Non drive end

| | | | |
|----------------------|---|-----------------------------|-------------|
| Bearing type | : | 6314 2RS C3 | 6314 2RS C3 |
| Sealing | : | WSeal | WSeal |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | POLYREA ESTER OIL (WT/ ENS) | |

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 |
|--------------|-----------------|-----------|---------|----------|
| Performed by | | | | |
| Checked by | | | | |
| Date | 28/03/2024 | | | |
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Customer :

Space heater information

Voltage: 110-127/200-240 V

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| Performed by | | | | | |
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