

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12126083

Catalog # : 00118AT3PCT143T-W22

| | | | |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame | : 143T | Locked rotor time | : 32s (cold) 18s (hot) |
| Output | : 1 HP (0.75 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 | : 3.38 A | Protection degree | : IP55 |
| L. R. Amperes | : 29.1 A | Cooling method | : IC418 - TEAO |
| LRC | : 8.6x(Code M) | Mounting | : F-2 |
| No load current | : 2.16 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1760 rpm | Noise level ² | : 51.0 dB(A) |
| Slip | : 2.22 % | Starting method | : Direct On Line |
| Rated torque | : 2.98 ft.lb | Approx. weight ³ | : 0.0 lb |
| Locked rotor torque | : 290 % | | |
| Breakdown torque | : 350 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.1172 sq.ft.lb | | |
| Design | : B | | |

| | | | | |
|--------|-----|-----|-----|------|
| Output | 25% | 50% | 75% | 100% |
|--------|-----|-----|-----|------|

| | | | | |
|----------------|------|------|------|------|
| Efficiency (%) | 78.4 | 80.0 | 84.0 | 85.5 |
| Power Factor | 0.31 | 0.55 | 0.68 | 0.75 |

Foundation loads

Max. traction : 91 lb
Max. compression : 91 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 15.9 | 12.8 | 12.5 | 10.1 | 7.0 | 5.8 | 4.3 |

| | Drive end | Non drive end |
|----------------------|--------------------|---------------|
| Bearing type | : 6205 2RS | : 6204 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 |
|--------------|-----------------|-----------|---------|------|
| | | | | |
| 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

| Rev. | Changes Summary | | Performed | Checked | Date |
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| | | | | | |
| Performed by | | | Page | | Revision |
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