

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12445768

Catalog # : 00318ET3H182T-W22

| | | | |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame | : 182/4T | Locked rotor time | : 41s (cold) 23s (hot) |
| Output | : 3 HP (2.2 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 575 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 3.13 A | Protection degree | : IP55 |
| L. R. Amperes | : 25.3 A | Cooling method | : IC411 - TEFC |
| LRC | : 8.1x(Code K) | Mounting | : F-1 |
| No load current | : 1.60 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1760 rpm | Noise level ² | : 56.0 dB(A) |
| Slip | : 2.22 % | Starting method | : Direct On Line |
| Rated torque | : 8.95 ft.lb | Approx. weight ³ | : 85.1 lb |
| Locked rotor torque | : 220 % | | |
| Breakdown torque | : 330 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.3401 sq.ft.lb | | |
| Design | : B | | |

| | | | | |
|----------------|------|------|------|------|
| Output | 25% | 50% | 75% | 100% |
| Efficiency (%) | 86.4 | 87.5 | 88.5 | 89.5 |
| Power Factor | 0.36 | 0.61 | 0.71 | 0.79 |

Foundation loads

: 146 lb

Max. traction

: 231 lb

Max. compression

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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 11.0 | 8.9 | 8.8 | 6.1 | 4.0 | 3.0 | 2.1 |

Drive end

Non drive end

| | | | |
|----------------------|---|------------------|---------|
| Bearing type | : | 6207 ZZ | 6206 ZZ |
| 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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| Page | | | | | Revision |
| 1 / 1 | | | | | |