

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump Single-Phase

Product code : 12724474

| | | | |
|-----------------------|--------------------|-----------------------------|-----------------------|
| Frame | : 184JP | Locked rotor time | : 10s (cold) 6s (hot) |
| Output | : 5 HP (3.7 kW) | Temperature rise | : 80 K |
| Poles | : 2 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 115/208-230 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 40.0/22.5-20.0 A | Protection degree | : IP55 |
| L. R. Amperes | : 340/191-170 A | Cooling method | : IC411 - TEFC |
| LRC | : 8.5x(Code J) | Mounting | : F-1 |
| No load current | : 7.20/2.70-2.60 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 3500 rpm | Starting method | : Direct On Line |
| Slip | : 2.78 % | Approx. weight ³ | : 106 lb |
| Rated torque | : 7.50 ft.lb | | |
| Locked rotor torque | : 210 % | | |
| Breakdown torque | : 250 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 0.0237 sq.ft.lb | | |

| | | | | | | |
|----------------|-------|------|------|------|------------------|----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 0.000 | 75.2 | 80.4 | 82.0 | Max. traction | : 67 lb |
| Power Factor | 0.00 | 0.97 | 0.98 | 0.98 | Max. compression | : 172 lb |

| | | Drive end | Non drive end |
|----------------------|---|------------------|---------------|
| Bearing type | : | 6307 ZZ | 6206 ZZ |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | 0 h | 0 h |
| Lubricant amount | : | 0 g | 0 g |
| 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 | | Page 1 / 1 | | |
| Checked by | | | | |
| Date | 26/03/2024 | | | |
| | | | Revision | |