

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JP
NEMA Premium Efficiency Three-Phase
Product code : 12711612
Catalog # : 00536ET3H184JP-W22

| | | | |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame | : 182/4JP | Locked rotor time | : 45s (cold) 25s (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 | : 575 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 4.72 A | Protection degree | : IP55 |
| L. R. Amperes | : 35.9 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.6x(Code J) | Mounting | : F-1 |
| No load current | : 1.60 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 3485 rpm | Noise level ² | : 69.0 dB(A) |
| Slip | : 3.19 % | Starting method | : Direct On Line |
| Rated torque | : 7.43 ft.lb | Approx. weight ³ | : 100.0 lb |
| Locked rotor torque | : 229 % | | |
| Breakdown torque | : 350 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.2233 sq.ft.lb | | |
| Design | : B | | |

| | | | | | |
|----------------|------|------|------|------|---------------------------|
| Output | 25% | 50% | 75% | 100% | Foundation loads |
| Efficiency (%) | 86.1 | 86.5 | 88.5 | 88.5 | Max. traction : 118 lb |
| Power Factor | 0.51 | 0.76 | 0.85 | 0.89 | Max. compression : 218 lb |

| | Drive end | Non drive end |
|----------------------|------------------|---------------|
| Bearing type | : 6307 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 | 22/01/2018 | | | |
| | | Page | | Revision |
| | | 1 / 1 | | |