

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase

Product code : 14282772
Catalog # : 12536OP3JFP404TS-W40

| | | | |
|-----------------------|-----------------|-----------------------------|------------------------|
| Frame | : 404/5TS | Locked rotor time | : 27s (cold) 15s (hot) |
| Output | : 125 HP | Temperature rise | : 80 K |
| Poles | : 2 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 380 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 166 A | Protection degree | : IP23 |
| L. R. Amperes | : 1095 A | Cooling method | : IC01 - ODP |
| LRC | : 6.6x(Code G) | Mounting | : F-1 |
| No load current | : 36.3 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 3545 rpm | Noise level ² | : 84.0 dB(A) |
| Slip | : 1.53 % | Starting method | : Direct On Line |
| Rated torque | : 185 ft.lb | Approx. weight ³ | : 861 lb |
| Locked rotor torque | : 180 % | | |
| Breakdown torque | : 229 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 8.03 sq.ft.lb | | |
| Design | : B | | |

| | | | | | | |
|----------------|------|------|------|------|------------------|-----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 92.8 | 93.0 | 93.6 | 93.6 | Max. traction | : 846 lb |
| Power Factor | 0.60 | 0.80 | 0.86 | 0.88 | Max. compression | : 1708 lb |

| | Drive end | Non drive end |
|----------------------|------------------------|----------------------|
| Bearing type | : 6314 C3 | 6212 Z C3 |
| Sealing | : Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : 14418 h | 20000 h |
| Lubricant amount | : 27 g | 13 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 | 30/03/2024 | | | |
| | | Revision | | |