

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 |
| LCR | : 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% |
| Efficiency (%) | 92.8 | 93.0 | 93.6 93.6 |
| Power Factor | 0.60 | 0.80 | 0.86 0.88 |
| <u>Drive end</u> | | <u>Non drive end</u> | |
| 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. | | These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1. | |
| (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. | | | |

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------------|----------|
| | | | | |
| Performed by | | | Page 1 / 1 | Revision |
| Checked by | | | | |
| Date | 30/03/2024 | | | |