

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12076562

Catalog # : 06036ET3H364TSC-W22

| | | | |
|-----------------------|-----------------|-----------------------------|------------------------|
| Frame | : 364/5TSC | Locked rotor time | : 25s (cold) 14s (hot) |
| Output | : 60 HP (45 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 | : 53.6 A | Protection degree | : IP55 |
| L. R. Amperes | : 354 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.6x(Code G) | Mounting | : F-1 |
| No load current | : 12.8 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 3555 rpm | Noise level ² | : 79.0 dB(A) |
| Slip | : 1.25 % | Starting method | : Direct On Line |
| Rated torque | : 88.6 ft.lb | Approx. weight ³ | : 874 lb |
| Locked rotor torque | : 200 % | | |
| Breakdown torque | : 260 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 10.6 sq.ft.lb | | |
| Design | : B | | |

| | | | | | | |
|----------------|------|------|------|------|------------------|-----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 91.0 | 91.7 | 93.0 | 93.6 | Max. traction | : 352 lb |
| Power Factor | 0.59 | 0.81 | 0.88 | 0.90 | Max. compression | : 1225 lb |

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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 6.3 | 4.7 | 4.4 | 3.3 | 1.7 | 1.1 | 0.6 |

| | Drive end | Non drive end |
|----------------------|--------------------|---------------|
| Bearing type | : 6314 C3 | : 6314 C3 |
| Sealing | : WSeal | : WSeal |
| Lubrication interval | : 4000 h | : 4000 h |
| Lubricant amount | : 27 g | : 27 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 | | | | |
| Checked by | | | | |
| Date | 29/03/2024 | | | |
| | | Page | | Revision |
| | | 1 / 1 | | |