

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14272921

Catalog # : 10036OT3E365TS-W40G

| | | | |
|-----------------------|------------------|-----------------------------|------------------------|
| Frame | : 364/5TS | Locked rotor time | : 23s (cold) 13s (hot) |
| Output | : 100 HP (75 kW) | Temperature rise | : 80 K |
| Poles | : 2 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 230/460 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 232/116 A | Protection degree | : IP23 |
| L. R. Amperes | : 1531/766 A | Cooling method | : IC01 - ODP |
| LRC | : 6.6x(Code G) | Mounting | : F-1 |
| No load current | : 59.0/29.5 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 3555 rpm | Noise level ² | : 84.0 dB(A) |
| Slip | : 1.25 % | Starting method | : Direct On Line |
| Rated torque | : 148 ft.lb | Approx. weight ³ | : 740 lb |
| Locked rotor torque | : 180 % | | |
| Breakdown torque | : 229 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 7.20 sq.ft.lb | | |
| Design | : B | | |

| | | | | | | | | | | |
|----------------|------|------|------|------|------------------|------|------|------|------------------|-----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | | | | | |
| Efficiency (%) | 92.2 | 88.0 | 92.4 | 90.2 | 93.6 | 91.9 | 93.6 | 94.3 | Max. traction | : 1085 lb |
| | 88.2 | 88.2 | 90.3 | 90.3 | 92.0 | 92.0 | 94.3 | 94.3 | | |
| Power Factor | 0.55 | 0.53 | 0.77 | 0.74 | 0.84 | 0.83 | 0.87 | 0.86 | Max. compression | : 1826 lb |
| | 0.47 | 0.47 | 0.69 | 0.70 | 0.78 | 0.80 | 0.84 | 0.83 | | |

| | | | | | | |
|----------------------|---|--|--|----------------------|--|----------------------|
| | | | | <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.

- (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 | |