

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof High Efficiency Three-Phase Product code : 11122582

| | | | |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame | : 504/5T | Locked rotor time | : 41s (cold) 23s (hot) |
| Output | : 150 HP (110 kW) | Temperature rise | : 80 K |
| Poles | : 8 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 460 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 178 A | Protection degree | : IP55 |
| L. R. Amperes | : 1068 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.0x(Code G) | Mounting | : F-1 |
| No load current | : 67.5 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 890 rpm | Noise level ² | : 66.0 dB(A) |
| Slip | : 1.11 % | Starting method | : Direct On Line |
| Rated torque | : 885 ft.lb | Approx. weight ³ | : 2842 lb |
| Locked rotor torque | : 170 % | | |
| Breakdown torque | : 200 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 134 sq.ft.lb | | |
| Design | : B | | |

| | | | | | | |
|----------------|------|------|------|------|------------------|-----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 92.9 | 93.0 | 93.6 | 93.6 | Max. traction | : 2826 lb |
| Power Factor | 0.45 | 0.71 | 0.79 | 0.83 | Max. compression | : 5668 lb |

| | | Drive end | Non drive end |
|----------------------|---|------------------|---------------|
| Bearing type | : | 6319 C3 | 6316 C3 |
| Sealing | : | Oil Seal | Lip Seal |
| Lubrication interval | : | 14016 h | 15904 h |
| Lubricant amount | : | 45 g | 34 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 |
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| Checked by | | | | |
| Date | 27/03/2024 | | | |

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Customer :

Thermal protection

| ID | Application | Type | Quantity | Sensing Temperature |
|----|-------------|----------------------|-----------|---------------------|
| 1 | Winding | Thermostat - 2 wires | 1 x Phase | 155 °C |

| | | | | | |
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