

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof High Efficiency Three-Phase Product code : 11114248

| | | | |
|-----------------------|-----------------|-----------------------------|------------------------|
| Frame | : 404/5T | Locked rotor time | : 48s (cold) 27s (hot) |
| Output | : 50 HP (37 kW) | Temperature rise | : 80 K |
| Poles | : 8 | 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 | : 130/64.9 A | Protection degree | : IP55 |
| L. R. Amperes | : 727/363 A | Cooling method | : IC411 - TEFC |
| LRC | : 5.6x(Code G) | Mounting | : F-1 |
| No load current | : 47.5/23.8 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 885 rpm | Noise level ² | : 62.0 dB(A) |
| Slip | : 1.67 % | Starting method | : Direct On Line |
| Rated torque | : 297 ft.lb | Approx. weight ³ | : 1102 lb |
| Locked rotor torque | : 220 % | | |
| Breakdown torque | : 210 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 34.6 sq.ft.lb | | |
| Design | : B | | |

| | | | | | | |
|----------------|------|------|------|------|------------------|-----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 90.0 | 90.2 | 91.7 | 91.7 | Max. traction | : 1317 lb |
| Power Factor | 0.44 | 0.69 | 0.75 | 0.78 | Max. compression | : 2419 lb |

| | | Drive end | Non drive end |
|----------------------|---|------------------|---------------|
| Bearing type | : | 6217 C3 | 6314 C3 |
| Sealing | : | Oil Seal | Lip Seal |
| Lubrication interval | : | 16602 h | 17353 h |
| Lubricant amount | : | 21 g | 27 g |
| Lubricant type | : | Mobil Polyrex EM | |

Notes:
USABLE @208V 143A SF 1.00 SFA 143A

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 / 2 Revision | | |
| Checked by | | | | |
| Date | 27/03/2024 | | | |

Customer :

Thermal protection

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

| | | | | | |
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| | | | | | |
| Performed by | | | | Page | Revision |
| Checked by | | | | 2 / 2 | |
| Date | 27/03/2024 | | | | |