

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13500703

Catalog # : 45018ET3GKD580Z-W22

| | | | |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame | : 586/7TZ | Locked rotor time | : 36s (cold) 20s (hot) |
| Output | : 450 HP (330 kW) | Temperature rise | : 80 K |
| Poles | : 4 | 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 | : 525 A | Protection degree | : IP55 |
| L. R. Amperes | : 4200 A | Cooling method | : IC411 - TEFC |
| LRC | : 8.0x(Code J) | Mounting | : F-1 |
| No load current | : 212 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1793 rpm | Noise level ² | : 78.0 dB(A) |
| Slip | : 0.39 % | Starting method | : Direct On Line |
| Rated torque | : 1320 ft.lb | Approx. weight ³ | : 3640 lb |
| Locked rotor torque | : 240 % | | |
| Breakdown torque | : 280 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 213 sq.ft.lb | | |
| Design | : A | | |

| | | | | |
|--------|-----|-----|-----|------|
| Output | 25% | 50% | 75% | 100% |
|--------|-----|-----|-----|------|

| | | | | |
|----------------|-------|------|------|------|
| Efficiency (%) | 0.000 | 95.0 | 95.4 | 96.2 |
| Power Factor | 0.00 | 0.65 | 0.77 | 0.82 |

Foundation loads

Max. traction : 5879 lb
Max. compression : 9519 lb

| | Drive end | Non drive end |
|----------------------|----------------------|----------------------|
| Bearing type | : NU-324 C3 | : 6319 C3 |
| Sealing | : Taconite Labyrinth | : Taconite Labyrinth |
| Lubrication interval | : 3000 h | : 8000 h |
| Lubricant amount | : 72 g | : 45 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 | | Page 1 / 2 Revision | | |
| 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 |

Space heater information

Voltage: 200 - 240 V

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