

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Flameproof Motor NEMA Premium Efficiency Three-Phase
Product code : 11360894
Catalog # : 05036XT3H326TS

| | | | |
|-----------------------|-----------------|-----------------------------|------------------------|
| Frame | : 326TS | Locked rotor time | : 59s (cold) 33s (hot) |
| Output | : 50 HP (37 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 | : 44.4 A | Protection degree | : IP55 |
| L. R. Amperes | : 320 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.2x(Code H) | Mounting | : F-1 |
| No load current | : 11.8 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 3550 rpm | Noise level ² | : 81.0 dB(A) |
| Slip | : 1.39 % | Starting method | : Direct On Line |
| Rated torque | : 72.8 ft.lb | Approx. weight ³ | : 692 lb |
| Locked rotor torque | : 210 % | | |
| Breakdown torque | : 210 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 5.42 sq.ft.lb | | |
| Design | : B | | |

| | | | | | | |
|----------------|------|------|------|------|------------------|----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 91.8 | 92.4 | 93.6 | 94.1 | Max. traction | : 250 lb |
| Power Factor | 0.58 | 0.82 | 0.88 | 0.89 | Max. compression | : 942 lb |

| | | | |
|----------------------|---|-----------------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6312 2RS C3 | 6212 2RS C3 |
| Sealing | : | Oil Seal | Lip Seal |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | POLYREA ESTER OIL (WT/ ENS) | |

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 | 24/01/2018 | | | |

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Thermal protection

| ID | Application | Type | Quantity | Sensing Temperature |
|----|-------------|----------------------|-----------|---------------------|
| 1 | Winding | Thermostat - 2 wires | 1 x Phase | 130 °C |
| 2 | Winding | Thermostat - 2 wires | 1 x Phase | 155 °C |

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|--------------|-----------------|--|-----------|---------|----------|
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| Date | 24/01/2018 | | | | |