

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 13705759
Catalog # : 05018ET3EPM324/6Y-W2

| | | | |
|-----------------------|---------------------|-----------------------------|------------------------|
| Frame | : 326YZ | Locked rotor time | : 27s (cold) 15s (hot) |
| Output | : 50 HP (37 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 208-230/460 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 131-118/59.2 A | Protection degree | : IP55 |
| L. R. Amperes | : 812-732/367 A | Cooling method | : IC410 - TEAO |
| LRC | : 6.2x(Code G) | Mounting | : F-1 |
| No load current | : 0.000-47.0/23.5 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1775 rpm | Noise level ² | : 66.0 dB(A) |
| Slip | : 1.39 % | Starting method | : Direct On Line |
| Rated torque | : 146 ft.lb | Approx. weight ³ | : 576 lb |
| Locked rotor torque | : 229 % | | |
| Breakdown torque | : 270 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : B | | |
| Design | | | |

| | | | | | | |
|----------------|------|------|------|------|------------------|-----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 92.5 | 93.0 | 94.1 | 94.5 | Max. traction | : 1224 lb |
| Power Factor | 0.62 | 0.66 | 0.77 | 0.83 | Max. compression | : 1800 lb |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6312 C3 | 6212 C3 |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | 20000 h | 20000 h |
| Lubricant amount | : | 21 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 |
|--------------|-----------------|------------------------|---------|------|
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| Performed by | | Page Revision 1 / 2 | | |
| Checked by | | | | |
| Date | 23/01/2018 | | | |

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Thermal protection

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

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|--------------|-----------------|--|-----------|---------|----------|
| | | | | | |
| Performed by | | | | Page | Revision |
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| Date | 23/01/2018 | | | | |