

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code : 14052129
Catalog # : 00718ET3YAL132MFF-W2

| | | | |
|-----------------------|------------------|-----------------------------|------------------------|
| Frame | : 132M | Locked rotor time | : 23s (cold) 13s (hot) |
| Output | : 10 HP (7.5 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : S1 |
| Frequency | : 50 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 380 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 14.5 A | Protection degree | : IP55 |
| L. R. Amperes | : 123 A | Cooling method | : IC411 - TEFC |
| LRC | : 8.5 | Mounting | : B35L(E) |
| No load current | : 6.20 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1460 rpm | Noise level ² | : 56.0 dB(A) |
| Slip | : 2.67 % | Starting method | : Direct On Line |
| Rated torque | : 36.0 ft.lb | Approx. weight ³ | : 161 lb |
| Locked rotor torque | : 220 % | | |
| Breakdown torque | : 300 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 1.52 sq.ft.lb | | |
| Design | : N | | |

| | | | | | | | | | | |
|----------------|------|------|------|------|------------------|------|------|------|------------------|----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | | | | | |
| Efficiency (%) | 91.0 | 90.0 | 91.0 | 90.5 | 91.5 | 91.4 | 91.2 | 91.7 | Max. traction | : 622 lb |
| | 89.4 | | 90.2 | | 91.0 | | 91.7 | | | |
| Power Factor | 0.43 | 0.37 | 0.70 | 0.64 | 0.81 | 0.76 | 0.86 | 0.81 | Max. compression | : 783 lb |
| | 0.38 | | 0.65 | | 0.76 | | 0.81 | | | |

Losses at normative operating points (speed;torque), in percentage of rated output power

| | | | | |
|------------|----------------|-----|-----|-----|
| Losses (%) | P1 (0,9;1,0) | 9.4 | 8.8 | 8.8 |
| | P2 (0,5;1,0) | 7.4 | 7.0 | 7.0 |
| | P3 (0,25;1,0) | 6.8 | 6.3 | 6.3 |
| | P4 (0,9;0,5) | 5.6 | 5.2 | 5.2 |
| | P5 (0,5;0,5) | 3.7 | 3.5 | 3.5 |
| | P6 (0,5;0,25) | 2.8 | 2.7 | 2.7 |
| | P7 (0,25;0,25) | 1.9 | 1.8 | 1.8 |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6308 ZZ | 6207 ZZ |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| 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 / 1 | | |
| Checked by | | | | |
| Date | 26/03/2024 | | | |
| | | | Revision | |