

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage

Product code : 12867529

| | | | |
|----------------------|--------------------|---------------------------------|---------------------------|
| Frame | : 132M | Cooling method | : IC411 - TEFC |
| Insulation class | : F | Mounting | : B3T |
| Duty cycle | : S1 | Direct of rotation ¹ | : Both |
| Ambient temperature | : -20 °C to +40 °C | Starting method | : Direct On Line |
| Altitude | : 1000 m.a.s.l | Approx. weight ³ | : 75.5 kg |
| Degree of protection | : IP55 | Moment of inertia (J) | : 0.0563 kgm ² |
| Design | : N | | |

| Output | 7.5 kW (10 HP) | 7.5 kW (10 HP) | 7.5 kW (10 HP) |
|--------------------------|----------------|----------------|----------------|
| Poles | 4 | 4 | 4 |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Rated voltage | 380/660 V | 400/690 V | 415 V |
| Rated current | 14.7/8.46 A | 14.2/8.23 A | 13.9 A |
| L. R. Amperes | 122/70.2 A | 118/68.3 A | 115 A |
| LRC (p.u.) | 8.3 | 8.3 | 8.3 |
| No load current | 6.53/3.76 A | 6.82/3.95 A | 8.07 A |
| Rated speed | 1460 rpm | 1460 rpm | 1465 rpm |
| Slip | 2.67 % | 2.67 % | 2.33 % |
| Rated torque | 5.00 kgfm | 5.00 kgfm | 4.99 kgfm |
| Locked rotor torque | 220 % | 240 % | 260 % |
| Breakdown torque | 310 % | 350 % | 380 % |
| Service factor | 1.00 | 1.00 | 1.00 |
| Noise level ² | 56.0 dB(A) | 56.0 dB(A) | 56.0 dB(A) |
| Locked rotor time | 7 s (hot) | 7 s (hot) | 7 s (hot) |
| | 13 s (cold) | 13 s (cold) | 13 s (cold) |
| Efficiency (%) | 25% | 85.4 | 85.8 |
| | 50% | 90.0 | 90.5 |
| | 75% | 90.2 | 90.8 |
| | 100% | 90.4 | 90.6 |
| | 125% | 89.7 | 89.6 |
| Power factor | Start | 0.55 | 0.57 |
| | 25% | 0.43 | 0.40 |
| | 50% | 0.66 | 0.63 |
| | 75% | 0.79 | 0.76 |
| | 100% | 0.86 | 0.84 |
| | 125% | 0.89 | 0.87 |

| | Drive end | Non drive end | Foundation loads |
|----------------------|------------------|---------------|-------------------------------|
| Bearing type | 6308-ZZ | 6207-ZZ | Maximum traction : 313 kgf |
| Lubrication interval | - | - | Maximum compression : 389 kgf |
| Lubricant amount | - | - | |
| Lubricant type | MOBIL POLYREX EM | | |

This revision replaces and cancels the previous one, which must be eliminated.

- (1) When viewed from the drive end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At the rated point.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

| Rev. | Summary of changes | | Performed | Checked | Date |
|--------------|--------------------|--|-------------|---------|----------|
| | | | | | |
| Performed by | mbreyer | | 001904/2021 | | |
| Checked by | AUTOMATICO | | Page | | Revision |
| Date | 06/01/2021 | | 1/2 | | 0 |

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Thermal protection

| ID | Application | Type | Quantity | Switching temperature |
|----|-------------|----------------------|-----------|-----------------------|
| 01 | Winding | Thermistor - 2 Wires | 1 x Phase | 155 °C |

| | | |
|-----------|-----------------------------|--------------------------|
| Standards | Specification : IEC 60034-1 | Vibration : IEC 60034-14 |
| | Tests : IEC 60034-2 | Tolerance : IEC 60034-1 |
| | Noise : IEC 60034-9 | |

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|--------------|--------------------|-----------|---------|---------------|
| | | | | |
| Performed by | mbreyer | | | 001904/2021 |
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