

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 13484284

Catalog # : 00112ET3E56CFL-S

Frame : 56C
 Output : 1 HP (0.75 kW)
 Poles : 6
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 3.16/1.58 A
 L. R. Amperes : 18.3/9.16 A
 LRC : 5.8x(Code J)
 No load current : 2.03/1.01 A
 Rated speed : 1145 rpm
 Slip : 4.58 %
 Rated torque : 4.59 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 280 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 0.1597 sq.ft.lb
 Design : B

Locked rotor time : 55s (cold) 31s (hot)
 Temperature rise : 80 K
 Duty cycle : Cont.(S1)
 Ambient temperature : -20°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP55
 Cooling method : IC411 - TEFC
 Mounting : F-1
 Rotation¹ : Both (CW and CCW)
 Noise level² : 50.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 36.8 lb

| Output | 25% | | 50% | | 75% | | 100% | |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 79.5 | 82.0 | 80.0 | 80.1 | 82.5 | 80.1 | 82.5 | 77.3 |
| | 78.9 | | 78.6 | | 80.3 | | 79.3 | |
| Power Factor | 0.28 | 0.33 | 0.50 | 0.58 | 0.63 | 0.71 | 0.72 | 0.79 |
| | 0.29 | | 0.51 | | 0.65 | | 0.74 | |

Foundation loads
 Max. traction : 119 lb
 Max. compression : 156 lb

| | Drive end | Non drive end |
|------------------------|------------------|----------------------|
| Bearing type : | 6204 ZZ | 6202 ZZ |
| Sealing : | V'Ring | Without Bearing Seal |
| 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 | | | | |
| Checked by | | | | |
| Date | 27/03/2024 | | | |

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 Revision