

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 13484366

Catalog # : 00336ET3E56C-S

Frame : 56HC
 Output : 3 HP (2.2 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 7.34/3.67 A
 L. R. Amperes : 68.3/34.1 A
 LRC : 9.3x(Code L)
 No load current : 3.20/1.60 A
 Rated speed : 3505 rpm
 Slip : 2.64 %
 Rated torque : 4.49 ft.lb
 Locked rotor torque : 280 %
 Breakdown torque : 380 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 0.1663 sq.ft.lb
 Design : B

Locked rotor time : 18s (cold) 10s (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 : 68.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 46.4 lb

| Output | 25% | | 50% | | 75% | | 100% | |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 78.7 | 80.3 | 81.0 | 82.0 | 84.0 | 83.0 | 86.5 | 84.6 |
| | 80.0 | | 82.0 | | 84.0 | | 86.0 | |
| Power Factor | 0.45 | 0.53 | 0.71 | 0.76 | 0.82 | 0.85 | 0.87 | 0.89 |
| | 0.47 | | 0.70 | | 0.81 | | 0.87 | |

Foundation loads
 Max. traction : 153 lb
 Max. compression : 200 lb

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| 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 | | Page Revision 1 / 1 | | |
| Checked by | | | | |
| Date | 27/03/2024 | | | |