

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Compressor Duty Standard
Efficiency Three-Phase

Product code : 13571295

Catalog # : 00536OS3ECD56-S

Frame : 56H
Output : 5 HP (3.7 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 208-230/460 V
Rated current : 14.2-12.8/6.40 A
L. R. Amperes : 78.1-70.4/35.2 A
LRC : 5.5x(Code G)
No load current : 0.000-4.80/2.40 A
Rated speed : 3390 rpm
Slip : 5.83 %
Rated torque : 7.75 ft.lb
Locked rotor torque : 170 %
Breakdown torque : 200 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 0.1092 sq.ft.lb
Design : A

Locked rotor time : 9s (cold) 5s (hot)
Temperature rise : 105 K
Duty cycle : S3
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Cooling method : IC01 - ODP
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Starting method : Direct On Line
Approx. weight³ : 33.4 lb

| Output | 25% | 50% | 75% | 100% |
|----------------|-------|------|------|------|
| Efficiency (%) | 0.000 | 82.0 | 81.0 | 79.0 |
| Power Factor | 0.00 | 0.79 | 0.88 | 0.92 |

Foundation loads
Max. traction : 135 lb
Max. compression : 169 lb

| | Drive end | Non drive end |
|----------------------|----------------------|----------------------|
| Bearing type | 6204 ZZ | 6202 ZZ |
| Sealing | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | 0 h | 0 h |
| Lubricant amount | 0 g | 0 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 |
|--------------|-----------------|---------------|---------|------|
| | | | | |
| Performed by | | Page 1 / 1 | | |
| Checked by | | | | |
| Date | 26/03/2024 | | | |
| | | Revision | | |