

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14495053

Catalog # : 02036OT3H254TC-W40

Frame : 254TC
 Output : 20 HP (15 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 575 V
 Rated current : 19.5 A
 L. R. Amperes : 123 A
 LRC : 6.3x(Code G)
 No load current : 6.32 A
 Rated speed : 3530 rpm
 Slip : 1.94 %
 Rated torque : 29.8 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 260 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 0.8718 sq.ft.lb
 Design : B

Locked rotor time : 19s (cold) 11s (hot)
 Temperature rise : 80 K
 Duty cycle : Cont.(S1)
 Ambient temperature : -20°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP23
 Cooling method : IC01 - ODP
 Mounting : F-1
 Rotation¹ : Both (CW and CCW)
 Starting method : Direct On Line
 Approx. weight³ : 201 lb

| Output | 25% | 50% | 75% | 100% |
|----------------|------|------|------|------|
| Efficiency (%) | 90.0 | 90.2 | 91.0 | 91.0 |
| Power Factor | 0.49 | 0.72 | 0.82 | 0.85 |

Foundation loads

Max. traction

Max. compression

| | Drive end | Non drive end |
|------------------------|----------------------|----------------------|
| Bearing type : | 6309 Z C3 | 6209 Z C3 |
| Sealing : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval : | 20000 h | 20000 h |
| Lubricant amount : | 13 g | 9 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 | | <div>Page 1 / 1</div> <div>Revision</div> | | |
| Checked by | | | | |
| Date | 29/03/2024 | | | |