

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13500622

Catalog # : 30012ET3GKD449T-W22

Frame : 447/9T
 Output : 300 HP (220 kW)
 Poles : 6
 Frequency : 60 Hz
 Rated voltage : 460 V
 Rated current : 356 A
 L. R. Amperes : 2741 A
 LRC : 7.7x(Code J)
 No load current : 170 A
 Rated speed : 1189 rpm
 Slip : 0.92 %
 Rated torque : 1320 ft.lb
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Insulation class : F
 Service factor : 1.00
 Moment of inertia (J) : 145 sq.ft.lb
 Design : A

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 : 70.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 3113 lb

| | | | | |
|----------------|-------|------|------|------|
| Output | 25% | 50% | 75% | 100% |
| Efficiency (%) | 0.000 | 95.4 | 95.8 | 95.8 |
| Power Factor | 0.00 | 0.63 | 0.75 | 0.81 |

Foundation loads
 Max. traction : 9040 lb
 Max. compression : 12154 lb

| | Drive end | Non drive end |
|----------------------|------------------|---------------|
| Bearing type | NU-322 C3 | 6319 C3 |
| Sealing | WSeal | WSeal |
| Lubrication interval | 7000 h | 13000 h |
| Lubricant amount | 60 g | 45 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 | 27/03/2024 | | | |
| | | Revision | | |