

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13697239

Catalog # : 07536ET3H365TS-W22G

Frame : 364/5TS
 Output : 75 HP (55 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 575 V
 Rated current : 65.5 A
 L. R. Amperes : 439 A
 LRC : 6.7x(Code G)
 No load current : 16.0 A
 Rated speed : 3555 rpm
 Slip : 1.25 %
 Rated torque : 111 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 11.9 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 : 79.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 850 lb

Output 25% 50% 75% 100%

Efficiency (%) 92.2 92.4 93.6 93.6
 Power Factor 0.60 0.83 0.88 0.90

Foundation loads

Max. traction : 523 lb
 Max. compression : 1373 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 6.4 | 4.8 | 4.5 | 3.2 | 1.8 | 1.1 | 0.6 |

| | Drive end | Non drive end |
|------------------------|------------------|---------------|
| Bearing type : | 6314 C3 | 6314 C3 |
| Sealing : | WSeal | WSeal |
| Lubrication interval : | 4000 h | 4000 h |
| Lubricant amount : | 27 g | 27 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 Revision 1 / 1 | | |
| Checked by | | | | |
| Date | 26/03/2024 | | | |