

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 12431876
 Catalog # : 25012ST3HIE449T-W22

| | | | |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame | : 447/9T | Locked rotor time | : 21s (cold) 12s (hot) |
| Output | : 250 HP (185 kW) | Temperature rise | : 80 K |
| Poles | : 6 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 575 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 234 A | Protection degree | : IP56 |
| L. R. Amperes | : 1425 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.1x(Code G) | Mounting | : F-1 |
| No load current | : 96.0 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1185 rpm | Noise level ² | : 70.0 dB(A) |
| Slip | : 1.25 % | Starting method | : Direct On Line |
| Rated torque | : 1110 ft.lb | Approx. weight ³ | : 2980 lb |
| Locked rotor torque | : 240 % | | |
| Breakdown torque | : 240 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 145 sq.ft.lb | | |
| Design | : B | | |

| | | | | | | |
|----------------|------|------|------|------|------------------|-----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 94.5 | 95.0 | 95.4 | 95.8 | Max. traction | : 5598 lb |
| Power Factor | 0.43 | 0.68 | 0.79 | 0.83 | Max. compression | : 8578 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) |
| 4.8 | 4.2 | 3.9 | 2.3 | 1.7 | 1.2 | 0.8 |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6322 C3 | 6319 C3 |
| Sealing | : | Inpro/Seal | Inpro/Seal |
| Lubrication interval | : | 11000 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 | | | | |
| Checked by | | | Page | Revision |
| Date | 25/03/2024 | | 1 / 1 | |