

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency
Three-Phase

Product code : 11434624

Catalog # : 12536ST3HIE444TS-W22

Frame : 444/5TS
Output : 125 HP
Poles : 2
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 107 A
L. R. Amperes : 708 A
LRC : 6.6x(Code G)
No load current : 27.2 A
Rated speed : 3570 rpm
Slip : 0.83 %
Rated torque : 184 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 33.5 sq.ft.lb
Design : B

Locked rotor time : 52s (cold) 29s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP56
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 81.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1619 lb

Output 25% 50% 75% 100%

Efficiency (%) 93.0 93.6 94.5 95.0
Power Factor 0.59 0.82 0.87 0.89

Foundation loads

Max. traction : 415 lb
Max. compression : 2035 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 | 3.0 | 2.5 | 3.1 | 1.4 | 1.1 | 0.5 |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6314 C3 | 6314 C3 |
| Sealing | : | Inpro/Seal | Inpro/Seal |
| 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 | 25/03/2024 | | | |