

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 16616836

Catalog # : 00512ET3H215T-W22G

| | | | |
|-----------------------|-----------------|-----------------------------|-------------------------|
| Frame | : 213/5T | Locked rotor time | : 102s (cold) 57s (hot) |
| Output | : 5 HP (3.7 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 | : 5.46 A | Protection degree | : IP55 |
| L. R. Amperes | : 37.2 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.8x(Code J) | Mounting | : F-1 |
| No load current | : 2.76 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1170 rpm | Noise level ² | : 55.0 dB(A) |
| Slip | : 2.50 % | Starting method | : Direct On Line |
| Rated torque | : 22.4 ft.lb | Approx. weight ³ | : 205 lb |
| Locked rotor torque | : 170 % | | |
| Breakdown torque | : 260 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 1.47 sq.ft.lb | | |
| Design | : B | | |

Output 25% 50% 75% 100%

Foundation loads

Efficiency (%) 88.2 88.5 89.5 89.5

Max. traction : 226 lb

Power Factor 0.34 0.58 0.70 0.76

Max. compression : 431 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 11.1 | 9.1 | 8.8 | 5.8 | 4.0 | 2.9 | 2.1 |

Drive end

Non drive end

Bearing type : 6308 ZZ

6207 ZZ

Sealing : V'Ring

V'Ring

Lubrication interval : -

-

Lubricant amount : -

-

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 | | | | |
| Date | 26/03/2024 | | | |
| | | | Page | Revision |
| | | | 1 / 1 | |