

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JP NEMA
Premium Efficiency Three-Phase

Product code : 12598736

Catalog # : 00718ET3H213JP-W22

| | | | |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame | : 213/5JP | Locked rotor time | : 36s (cold) 20s (hot) |
| Output | : 7.5 HP (5.5 kW) | Temperature rise | : 80 K |
| Poles | : 4 | 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 | : 7.34 A | Protection degree | : IP55 |
| L. R. Amperes | : 52.1 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.1x(Code H) | Mounting | : F-1 |
| No load current | : 3.36 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1765 rpm | Noise level ² | : 58.0 dB(A) |
| Slip | : 1.94 % | Starting method | : Direct On Line |
| Rated torque | : 22.3 ft.lb | Approx. weight ³ | : 174 lb |
| Locked rotor torque | : 220 % | | |
| Breakdown torque | : 310 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 1.34 sq.ft.lb | | |
| Design | : B | | |

| | | | | | | |
|----------------|------|------|------|------|------------------|----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 88.6 | 89.5 | 91.0 | 91.7 | Max. traction | : 303 lb |
| Power Factor | 0.40 | 0.66 | 0.76 | 0.82 | Max. compression | : 477 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 8.8 | 7.0 | 6.5 | 4.9 | 3.3 | 2.4 | 1.6 |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6309 Z C3 | 6207 ZZ |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | 20000 h | 40000 h |
| Lubricant amount | : | 13 g | 0 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 Revision | | |
| Checked by | | | | |
| Date | 30/03/2024 | | | |