

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump High Efficiency Three-Phase Product code : 11743307

| | | | |
|-----------------------|-----------------|-----------------------------|------------------------|
| Frame | : 254JP | Locked rotor time | : 30s (cold) 17s (hot) |
| Output | : 15 HP (11 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 200/400 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 43.0/21.5 A | Protection degree | : IP23 |
| L. R. Amperes | : 258/129 A | Cooling method | : IC01 - ODP |
| LRC | : 6.0x(Code G) | Mounting | : W-6 |
| No load current | : 20.7/10.4 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1765 rpm | Noise level ² | : 59.0 dB(A) |
| Slip | : 1.94 % | Starting method | : Direct On Line |
| Rated torque | : 44.6 ft.lb | Approx. weight ³ | : 211 lb |
| Locked rotor torque | : 229 % | | |
| Breakdown torque | : 250 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 1.55 sq.ft.lb | | |
| Design | : B | | |

| | | | | | | |
|----------------|------|------|------|------|------------------|----------|
| Output | 25% | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 89.2 | 89.5 | 91.0 | 91.0 | Max. traction | : 429 lb |
| Power Factor | 0.38 | 0.63 | 0.75 | 0.81 | Max. compression | : 640 lb |

| | | | |
|----------------------|---|----------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6309 Z C3 | 6209 Z C3 |
| Sealing | : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : | 20000 h | 20000 h |
| Lubricant amount | : | 13 g | 9 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 | | |
| Checked by | | | | |
| Date | 26/03/2024 | | | |
| | | | Revision | |