

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12712284

Catalog # : 05018OT3H326JP

Frame : 326JP
Output : 50 HP (37 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 120/59.9 A
L. R. Amperes : 755/377 A
LRC : 6.3x(Code G)
No load current : 48.0/24.0 A
Rated speed : 1775 rpm
Slip : 1.39 %
Rated torque : 148 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 7.04 sq.ft.lb
Design : B

Locked rotor time : 21s (cold) 12s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP23
Cooling method : IC01 - ODP
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 65.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 545 lb

| Output | 25% | | 50% | | 75% | | 100% | |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 94.0 | 90.9 | 94.1 | 91.6 | 94.5 | 93.1 | 94.5 | 93.6 |
| | 90.7 | 90.7 | 91.4 | 91.3 | 93.1 | 93.2 | 93.6 | 93.6 |
| | 92.8 | 92.8 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 |
| Power Factor | 92.9 | 93.0 | 93.0 | 93.0 | 93.0 | | | |
| | 0.44 | 0.47 | 0.70 | 0.72 | 0.79 | 0.81 | 0.82 | 0.85 |
| | 0.43 | 0.39 | 0.67 | 0.62 | 0.77 | 0.74 | 0.82 | 0.79 |
| | 0.54 | 0.49 | 0.78 | 0.73 | 0.84 | 0.81 | 0.85 | 0.83 |
| | 0.45 | 0.69 | 0.78 | 0.82 | | | | |

Foundation loads
Max. traction : 2324 lb
Max. compression : 2869 lb

| | Drive end | Non drive end |
|----------------------|----------------------|----------------------|
| Bearing type | 6312 Z C3 | 6212 Z C3 |
| Sealing | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | 20000 h | 20000 h |
| Lubricant amount | 21 g | 13 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 | | | | |
| Date | 29/03/2024 | | | |
| | | Page | | Revision |
| | | 1 / 1 | | |