

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 12676951

Catalog # : 00536OT3V182JM-S

Frame : 182/4JM  
Output : 5 HP (3.7 kW)  
Poles : 2  
Frequency : 60 Hz  
Rated voltage : 200/400 V  
Rated current : 14.5/7.27 A  
L. R. Amperes : 110/55.2 A  
LRC : 7.6x(Code J)  
No load current : 7.13/3.57 A  
Rated speed : 3510 rpm  
Slip : 2.50 %  
Rated torque : 7.48 ft.lb  
Locked rotor torque : 190 %  
Breakdown torque : 300 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.1386 sq.ft.lb  
Design : B

Locked rotor time : 27s (cold) 15s (hot)  
Temperature rise : 80 K  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Cooling method : IC01 - ODP  
Mounting : F-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 65.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 67.4 lb

| Output | 25% | 50% | 75% | 100% |
|--------|-----|-----|-----|------|
|--------|-----|-----|-----|------|

|                |      |      |      |      |
|----------------|------|------|------|------|
| Efficiency (%) | 85.2 | 85.5 | 86.5 | 86.5 |
| Power Factor   | 0.39 | 0.66 | 0.78 | 0.85 |

Foundation loads

Max. traction : 109 lb  
Max. compression : 177 lb

|                      | Drive end            | Non drive end        |
|----------------------|----------------------|----------------------|
| Bearing type         | 6207 ZZ              | 6205 ZZ              |
| Sealing              | Without Bearing Seal | Without Bearing Seal |
| 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 |                 | Page<br>1 / 1 |         |      |
| Checked by   |                 |               |         |      |
| Date         | 29/03/2024      |               |         |      |
|              |                 | Revision      |         |      |