

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12690290

Catalog # : 00158OT3E145JM-SG

Frame : 143/5JM  
Output : 1.5 HP (1.1 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 4.14/2.07 A  
L. R. Amperes : 36.0/18.0 A  
LRC : 8.7x(Code L)  
No load current : 2.40/1.20 A  
Rated speed : 1760 rpm  
Slip : 2.22 %  
Rated torque : 4.48 ft.lb  
Locked rotor torque : 280 %  
Breakdown torque : 330 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.1426 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> : 52.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 44.2 lb

| Output         | 25%  |      | 50%  |      | 75%  |      | 100% |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 83.6 | 85.3 | 84.0 | 84.3 | 86.5 | 84.7 | 86.5 | 83.2 |
|                | 83.1 |      | 83.0 |      | 84.7 |      | 84.2 |      |
| Power Factor   | 0.32 | 0.38 | 0.56 | 0.64 | 0.69 | 0.77 | 0.77 | 0.83 |
|                | 0.32 |      | 0.57 |      | 0.70 |      | 0.79 |      |

Foundation loads  
Max. traction : 124 lb  
Max. compression : 169 lb

|                      | Drive end              | Non drive end          |
|----------------------|------------------------|------------------------|
| Bearing type         | : 6206 ZZ              | : 6203 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 |                 |           |         |      |
| Checked by   |                 |           |         |      |
| Date         | 29/03/2024      |           |         |      |

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Revision