

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium  
Efficiency Three-Phase

Product code : 12751147

Catalog # : 00736OT3E184TC-S

Frame : 182/4TC  
Output : 7.5 HP (5.5 kW)  
Poles : 2  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 17.9/8.97 A  
L. R. Amperes : 133/66.4 A  
LRC : 7.4x(Code H)  
No load current : 7.80/3.90 A  
Rated speed : 3500 rpm  
Slip : 2.78 %  
Rated torque : 11.3 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 300 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.1818 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.  
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> : 71.0 lb

| Output         | 50%               | 75%               | 100%              |
|----------------|-------------------|-------------------|-------------------|
| Efficiency (%) | 88.5 87.0<br>86.0 | 88.5 87.9<br>87.4 | 88.5 88.1<br>88.1 |
| Power Factor   | 0.72 0.68<br>0.60 | 0.82 0.80<br>0.71 | 0.87 0.86<br>0.80 |

Foundation loads  
Max. traction : 216 lb  
Max. compression : 287 lb

|                      | Drive end            | Non drive end        |
|----------------------|----------------------|----------------------|
| Bearing type         | 6206 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         | 22/10/2025      |               |         |      |
|              |                 | Revision      |         |      |