

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium  
Efficiency Three-Phase

Product code : 12770788

Catalog # : 02536OT3H256T-S

Frame : 254/6T  
Output : 25 HP (18.5 kW)  
Poles : 2  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 23.3 A  
L. R. Amperes : 147 A  
LRC : 6.3x(Code G)  
No load current : 9.12 A  
Rated speed : 3530 rpm  
Slip : 1.94 %  
Rated torque : 37.2 ft.lb  
Locked rotor torque : 180 %  
Breakdown torque : 290 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.9155 sq.ft.lb  
Design : B

Locked rotor time : 16s (cold) 9s (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> : 70.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 182 lb

| Output         | 50%  | 75%  | 100% |
|----------------|------|------|------|
| Efficiency (%) | 91.0 | 91.7 | 91.7 |
| Power Factor   | 0.73 | 0.83 | 0.87 |

Foundation loads  
Max. traction : 426 lb  
Max. compression : 608 lb

|                      | Drive end            | Non drive end        |
|----------------------|----------------------|----------------------|
| Bearing type         | 6309 Z C3            | 6208 Z C3            |
| Sealing              | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | 20000 h              | 20000 h              |
| Lubricant amount     | 13 g                 | 8 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<br>1 / 1 |         |      |
| Checked by   |                 |               |         |      |
| Date         | 29/04/2025      |               |         |      |
|              |                 | Revision      |         |      |