

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Single-Phase

Product code : 14419274  
Catalog # : .2536OT1B48CH-S

Frame : 48  
Output : 0.25 HP (0.18 kW)  
Poles : 2  
Frequency : 60 Hz  
Rated voltage : 115/208-230 V  
Rated current : 2.50/1.38-1.25 A  
L. R. Amperes : 22.0/12.1-11.0 A  
LRC : 8.8x(Code M)  
No load current : 1.00/0.431-0.500 A  
Rated speed : 3510 rpm  
Slip : 2.50 %  
Rated torque : 0.374 ft.lb  
Locked rotor torque : 280 %  
Breakdown torque : 310 %  
Insulation class : F  
Service factor : 1.35  
Moment of inertia (J) : 0.0211 sq.ft.lb  
Design : N

Locked rotor time : 32s (cold) 18s (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> : 56.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 17.2 lb

| Output         | 25%  | 50%  | 75%  | 100% |
|----------------|------|------|------|------|
| Efficiency (%) | 45.4 | 50.0 | 59.0 | 66.6 |
| Power Factor   | 0.64 | 0.91 | 0.93 | 0.94 |

Foundation loads  
Max. traction : 4 lb  
Max. compression : 21 lb

|                      | Drive end            | Non drive end        |
|----------------------|----------------------|----------------------|
| Bearing type         | 6203 ZZ              | 6202 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 / 1Revision |         |      |
| Checked by   |                 |                       |         |      |
| Date         | 25/03/2024      |                       |         |      |