

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Single-Phase

Product code : 14419270  
Catalog # : 1236OS1B48-S

|                       |                      |                             |                        |
|-----------------------|----------------------|-----------------------------|------------------------|
| Frame                 | : 48                 | Locked rotor time           | : 32s (cold) 18s (hot) |
| Output                | : 0.12 HP (0.09 kW)  | Temperature rise            | : 80 K                 |
| Poles                 | : 2                  | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz              | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 115/208-230 V      | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 2.48/1.37-1.24 A   | Cooling method              | : IC01 - ODP           |
| L. R. Amperes         | : 15.9/8.77-7.94 A   | Mounting                    | : F-1                  |
| LRC                   | : 6.4x(Code R)       | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| No load current       | : 1.80/0.776-0.900 A | Noise level <sup>2</sup>    | : 56.0 dB(A)           |
| Rated speed           | : 3500 rpm           | Starting method             | : Direct On Line       |
| Slip                  | : 2.78 %             | Approx. weight <sup>3</sup> | : 14.3 lb              |
| Rated torque          | : 0.180 ft.lb        |                             |                        |
| Locked rotor torque   | : 300 %              |                             |                        |
| Breakdown torque      | : 300 %              |                             |                        |
| Insulation class      | : F                  |                             |                        |
| Service factor        | : 1.40               |                             |                        |
| Moment of inertia (J) | : 0.0126 sq.ft.lb    |                             |                        |
| Design                | : N                  |                             |                        |

|                |      |      |      |      |                  |         |
|----------------|------|------|------|------|------------------|---------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |         |
| Efficiency (%) | 29.5 | 32.0 | 40.0 | 44.0 | Max. traction    | : -1 lb |
| Power Factor   | 0.35 | 0.60 | 0.67 | 0.72 | Max. compression | : 13 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 / 1<br>Revision |         |      |
| Checked by   |                 |                           |         |      |
| Date         | 25/03/2024      |                           |         |      |