

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

|   |                 |   |  |         |          |
|---|-----------------|---|--|---------|----------|
| Customer :  |                 |   |  |         |          |
| Product line : Rolled Steel Single-Phase  |                 | Product code : 14360313   |  |         |          |
|   |                 | Catalog # : .1218OS1B48-S   |  |         |          |
| Frame : 48<br>Output : 0.12 HP (0.09 kW)<br>Poles : 4<br>Frequency : 60 Hz<br>Rated voltage : 115/208-230 V<br>Rated current : 2.84/1.57-1.42 A<br>L. R. Amperes : 13.6/7.54-6.82 A<br>LRC : 4.8x(Code P)<br>No load current : 2.60/1.12-1.30 A<br>Rated speed : 1740 rpm<br>Slip : 3.33 %<br>Rated torque : 0.362 ft.lb<br>Locked rotor torque : 330 %<br>Breakdown torque : 310 %<br>Insulation class : F<br>Service factor : 1.40<br>Moment of inertia (J) : 0.0240 sq.ft.lb<br>Design : N |                 | Locked rotor time : 46s (cold) 26s (hot)<br>Temperature rise : 80 K<br>Duty cycle : Cont.(S1)<br>Ambient temperature : -20°C to +40°C<br>Altitude : 1000 m.a.s.l.<br>Cooling method : IC01 - ODP<br>Mounting : F-1<br>Rotation <sup>1</sup> : Both (CW and CCW)<br>Noise level <sup>2</sup> : 50.0 dB(A)<br>Starting method : Direct On Line<br>Approx. weight <sup>3</sup> : 13.7 lb |  |         |          |
| Output  | 25%             | 50%   | 75%  | 100%    |          |
| Efficiency (%)  | 34.0            | 37.0  | 45.0   | 50.0    |          |
| Power Factor  | 0.23            | 0.41  | 0.48   | 0.55    |          |
| Foundation loads  |                 |   |  |         |          |
| Max. traction : 5 lb  |                 |   |  |         |          |
| Max. compression : 19 lb  |                 |   |  |         |          |
|   |                 | <u>Drive end</u>  | <u>Non drive end</u>   |         |          |
| 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.<br>(1) Looking the motor from the shaft end.<br>(2) Measured at 1m and with tolerance of +3dB(A).<br>(3) Approximate weight subject to changes after manufacturing process.<br>(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  |                 |   |  | Page    | Revision |
| Date  | 12/01/2022      |   |  | 1 / 1   |          |