

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Fan and Exhaust Single-Phase Product code : 14573011  
Catalog # : .3318OT1BRBOW56-S

|                       |                     |                             |                        |
|-----------------------|---------------------|-----------------------------|------------------------|
| Frame                 | : W56               | Locked rotor time           | : 30s (cold) 17s (hot) |
| Output                | : 0.33 HP (0.25 kW) | Temperature rise            | : 80 K                 |
| Poles                 | : 4                 | 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         | : 4.12/2.32-2.06 A  | Cooling method              | : IC01 - ODP           |
| L. R. Amperes         | : 30.1/16.9-15.0 A  | Mounting                    | : F-1                  |
| LRC                   | : 7.3x(Code M)      | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| No load current       | : 3.10/1.34-1.55 A  | Noise level <sup>2</sup>    | : 50.0 dB(A)           |
| Rated speed           | : 1745 rpm          | Starting method             | : Direct On Line       |
| Slip                  | : 3.06 %            | Approx. weight <sup>3</sup> | : 23.6 lb              |
| Rated torque          | : 0.993 ft.lb       |                             |                        |
| Locked rotor torque   | : 320 %             |                             |                        |
| Breakdown torque      | : 300 %             |                             |                        |
| Insulation class      | : F                 |                             |                        |
| Service factor        | : 1.35              |                             |                        |
| Moment of inertia (J) | : 0.0439 sq.ft.lb   |                             |                        |
| Design                | : N                 |                             |                        |

|                |      |      |      |      |                  |         |
|----------------|------|------|------|------|------------------|---------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |         |
| Efficiency (%) | 57.6 | 61.0 | 68.0 | 72.4 | Max. traction    | : 17 lb |
| Power Factor   | 0.30 | 0.53 | 0.67 | 0.73 | Max. compression | : 41 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         | 26/03/2024      |                           |         |      |