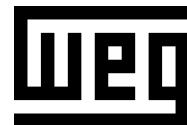


# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

|                       |                             |                             |                        |      |                      |                 |
|-----------------------|-----------------------------|-----------------------------|------------------------|------|----------------------|-----------------|
| Product line          | : Rolled Steel Single-Phase |                             |                        |      | Product code :       | 13039366        |
|                       |                             |                             |                        |      | Catalog # :          | .5018OT1BW56C-S |
| Frame                 | : W56C                      | Locked rotor time           | : 27s (cold) 15s (hot) |      |                      |                 |
| Output                | : 0.5 HP (0.37 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         | : 4.86/3.04-2.43 A          | Cooling method              | : IC01 - ODP           |      |                      |                 |
| L. R. Amperes         | : 37.4/23.4-18.7 A          | Mounting                    | : F-1                  |      |                      |                 |
| LRC                   | : 7.7x(Code K)              | Rotation <sup>1</sup>       | : Both (CW and CCW)    |      |                      |                 |
| No load current       | : 2.70/1.16-1.35 A          | Noise level <sup>2</sup>    | : 50.0 dB(A)           |      |                      |                 |
| Rated speed           | : 1730 rpm                  | Starting method             | : Direct On Line       |      |                      |                 |
| Slip                  | : 3.89 %                    | Approx. weight <sup>3</sup> | : 22.9 lb              |      |                      |                 |
| Rated torque          | : 1.52 ft.lb                |                             |                        |      |                      |                 |
| Locked rotor torque   | : 300 %                     |                             |                        |      |                      |                 |
| Breakdown torque      | : 270 %                     |                             |                        |      |                      |                 |
| Insulation class      | : F                         |                             |                        |      |                      |                 |
| Service factor        | : 1.25                      |                             |                        |      |                      |                 |
| Moment of inertia (J) | : 0.0520 sq.ft.lb           |                             |                        |      |                      |                 |
| Design                | : N                         |                             |                        |      |                      |                 |
| Output                | 25%                         | 50%                         | 75%                    | 100% | Foundation loads     |                 |
| Efficiency (%)        | 62.2                        | 65.0                        | 73.0                   | 76.2 | Max. traction        | : 28 lb         |
| Power Factor          | 0.44                        | 0.72                        | 0.81                   | 0.87 | Max. compression     | : 51 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 |                 |  |  |           |         |          |
| Checked by   |                 |  |  |           |         |          |
| Date         | 26/03/2024      |  |  |           | Page    | Revision |
|              |                 |  |  |           | 1 / 1   |          |