

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : General Single-Phase

Product code : 10680342

|                       |                     |                             |                       |
|-----------------------|---------------------|-----------------------------|-----------------------|
| Frame                 | : B56C              | Locked rotor time           | : 10s (cold) 6s (hot) |
| Output                | : 0.75 HP (0.55 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         | : 10.4/5.00-5.20 A  | Protection degree           | : IP55                |
| L. R. Amperes         | : 65.5/31.5-32.8 A  | Cooling method              | : IC411 - TEFC        |
| LRC                   | : 6.3x(Code M)      | Mounting                    | : F-1                 |
| No load current       | : 7.60/3.28-3.80 A  | Rotation <sup>1</sup>       | : Both (CW and CCW)   |
| Rated speed           | : 3490 rpm          | Noise level <sup>2</sup>    | : 55.0 dB(A)          |
| Slip                  | : 3.06 %            | Starting method             | : Direct On Line      |
| Rated torque          | : 1.13 ft.lb        | Approx. weight <sup>3</sup> | : 28.3 lb             |
| Locked rotor torque   | : 300 %             |                             |                       |
| Breakdown torque      | : 290 %             |                             |                       |
| Insulation class      | : B                 |                             |                       |
| Service factor        | : 1.15              |                             |                       |
| Moment of inertia (J) | : 0.0396 sq.ft.lb   |                             |                       |

|                |      |      |      |      |                  |         |
|----------------|------|------|------|------|------------------|---------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |         |
| Efficiency (%) | 49.0 | 52.0 | 60.0 | 64.0 | Max. traction    | : 18 lb |
| Power Factor   | 0.31 | 0.54 | 0.64 | 0.72 | Max. compression | : 46 lb |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6203 ZZ          | 6202 ZZ              |
| Sealing              | : | V'Ring           | V'Ring               |
| 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         | 25/03/2024      |       |           |          |      |
|              |                 | Page  |           | Revision |      |
|              |                 | 1 / 1 |           |          |      |