

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Centrifugal Pump Single-Phase Start Capacitor      Product code : 10486811

|                       |                   |                             |                       |
|-----------------------|-------------------|-----------------------------|-----------------------|
| Frame                 | : G56HJ           | Locked rotor time           | : 10s (cold) 6s (hot) |
| Output                | : 3 HP (2.2 kW)   | Temperature rise            | : 105 K               |
| Poles                 | : 2               | Duty cycle                  | : Cont.(S1)           |
| Frequency             | : 60 Hz           | Ambient temperature         | : -20°C to +40°C      |
| Rated voltage         | : 230 V           | Altitude                    | : 1000 m.a.s.l.       |
| Rated current         | : 12.0 A          | Protection degree           | : IP55                |
| L. R. Amperes         | : 93.6 A          | Cooling method              | : IC411 - TEFC        |
| LRC                   | : 7.8x(Code J)    | Mounting                    | : F-1                 |
| No load current       | : 2.30 A          | Rotation <sup>1</sup>       | : CCW                 |
| Rated speed           | : 3490 rpm        | Starting method             | : Direct On Line      |
| Slip                  | : 3.06 %          | Approx. weight <sup>3</sup> | : 51.4 lb             |
| Rated torque          | : 4.51 ft.lb      |                             |                       |
| Locked rotor torque   | : 250 %           |                             |                       |
| Breakdown torque      | : 280 %           |                             |                       |
| Insulation class      | : F               |                             |                       |
| Service factor        | : 1.15            |                             |                       |
| Moment of inertia (J) | : 0.0949 sq.ft.lb |                             |                       |

|                |      |      |      |      |                  |          |
|----------------|------|------|------|------|------------------|----------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 75.3 | 77.0 | 82.5 | 84.0 | Max. traction    | : 98 lb  |
| Power Factor   | 0.75 | 0.96 | 0.97 | 0.97 | Max. compression | : 150 lb |

|                      | Drive end        | Non drive end |
|----------------------|------------------|---------------|
| Bearing type         | : 6204 2RS       | : 6203 2RS    |
| 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 |                 | Page      Revision<br>1 / 1 |         |      |
| Checked by   |                 |                             |         |      |
| Date         | 27/03/2024      |                             |         |      |