

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump High Efficiency Three-Phase      Product code : 12951403

|                       |                   |                             |                       |
|-----------------------|-------------------|-----------------------------|-----------------------|
| Frame                 | : 213/5JM         | Locked rotor time           | : 10s (cold) 6s (hot) |
| Output                | : 15 HP (11 kW)   | Temperature rise            | : 80 K                |
| Poles                 | : 2               | Duty cycle                  | : Cont.(S1)           |
| Frequency             | : 60 Hz           | Ambient temperature         | : -20°C to +40°C      |
| Rated voltage         | : 575 V           | Altitude                    | : 1000 m.a.s.l.       |
| Rated current         | : 14.0 A          | Cooling method              | : IC01 - ODP          |
| L. R. Amperes         | : 91.0 A          | Mounting                    | : W-6                 |
| LRC                   | : 6.5x(Code G)    | Rotation <sup>1</sup>       | : Both (CW and CCW)   |
| No load current       | : 5.89 A          | Noise level <sup>2</sup>    | : 66.0 dB(A)          |
| Rated speed           | : 3525 rpm        | Starting method             | : Direct On Line      |
| Slip                  | : 2.08 %          | Approx. weight <sup>3</sup> | : 122 lb              |
| Rated torque          | : 22.3 ft.lb      |                             |                       |
| Locked rotor torque   | : 190 %           |                             |                       |
| Breakdown torque      | : 260 %           |                             |                       |
| Insulation class      | : F               |                             |                       |
| Service factor        | : 1.15            |                             |                       |
| Moment of inertia (J) | : 0.4651 sq.ft.lb |                             |                       |
| Design                | : B               |                             |                       |

|                |      |      |      |      |                  |          |
|----------------|------|------|------|------|------------------|----------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 88.3 | 88.5 | 89.5 | 89.5 | Max. traction    | : 266 lb |
| Power Factor   | 0.46 | 0.73 | 0.83 | 0.88 | Max. compression | : 389 lb |

|                      | Drive end              | Non drive end          |
|----------------------|------------------------|------------------------|
| Bearing type         | : 6209 ZZ              | : 6206 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 |         |      |
| Checked by   |                 |               |         |      |
| Date         | 29/03/2024      |               |         |      |
|              |                 | Revision      |         |      |