

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel High Efficiency Three-Phase Product code : 12963929

|                       |                   |                             |                        |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame                 | : 143/5T          | Locked rotor time           | : 55s (cold) 31s (hot) |
| Output                | : 1 HP (0.75 kW)  | Temperature rise            | : 80 K                 |
| Poles                 | : 6               | 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         | : 1.33 A          | Protection degree           | : IP55                 |
| L. R. Amperes         | : 8.37 A          | Cooling method              | : IC418 - TEAO         |
| LRC                   | : 6.3x(Code K)    | Mounting                    | : F-1                  |
| No load current       | : 0.862 A         | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1145 rpm        | Noise level <sup>2</sup>    | : 50.0 dB(A)           |
| Slip                  | : 4.58 %          | Starting method             | : Direct On Line       |
| Rated torque          | : 4.59 ft.lb      | Approx. weight <sup>3</sup> | : 42.1 lb              |
| Locked rotor torque   | : 270 %           |                             |                        |
| Breakdown torque      | : 320 %           |                             |                        |
| Insulation class      | : F               |                             |                        |
| Service factor        | : 1.15            |                             |                        |
| Moment of inertia (J) | : 0.1037 sq.ft.lb |                             |                        |
| Design                | : B               |                             |                        |

|                |      |      |      |      |                           |
|----------------|------|------|------|------|---------------------------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads          |
| Efficiency (%) | 76.5 | 77.0 | 80.0 | 80.0 | Max. traction : 107 lb    |
| Power Factor   | 0.27 | 0.49 | 0.62 | 0.71 | Max. compression : 149 lb |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6205 ZZ          | 6203 ZZ              |
| Sealing              | : | V'Ring           | 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 Revision<br>1 / 1 |         |      |
| Checked by   |                 |                        |         |      |
| Date         | 26/03/2024      |                        |         |      |