

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 12474712

|                       |                   |                             |                        |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame                 | : 184TC           | Locked rotor time           | : 21s (cold) 12s (hot) |
| Output                | : 5 HP (3.7 kW)   | Temperature rise            | : 105 K                |
| Poles                 | : 4               | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz           | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 200/400 V       | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 14.9/7.46 A     | Protection degree           | : IP21                 |
| L. R. Amperes         | : 109/54.5 A      | Cooling method              | : IC01 - ODP           |
| LRC                   | : 7.3x(Code J)    | Mounting                    | : F-1                  |
| No load current       | : 7.82/3.91 A     | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1755 rpm        | Noise level <sup>2</sup>    | : 55.0 dB(A)           |
| Slip                  | : 2.50 %          | Starting method             | : Direct On Line       |
| Rated torque          | : 15.0 ft.lb      | Approx. weight <sup>3</sup> | : 74.1 lb              |
| Locked rotor torque   | : 210 %           |                             |                        |
| Breakdown torque      | : 290 %           |                             |                        |
| Insulation class      | : F               |                             |                        |
| Service factor        | : 1.15            |                             |                        |
| Moment of inertia (J) | : 0.3495 sq.ft.lb |                             |                        |
| Design                | : B               |                             |                        |

|                |      |      |      |      |                  |          |
|----------------|------|------|------|------|------------------|----------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 88.2 | 88.5 | 89.5 | 89.5 | Max. traction    | : 240 lb |
| Power Factor   | 0.35 | 0.59 | 0.72 | 0.80 | Max. compression | : 314 lb |

|                      | Drive end              | Non drive end          |
|----------------------|------------------------|------------------------|
| Bearing type         | : 6206 ZZ              | : 6205 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<br>Revision |         |      |
| Checked by   |                 |                           |         |      |
| Date         | 25/03/2024      |                           |         |      |