

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase      Product code : 12809252

|                       |                     |                             |                        |
|-----------------------|---------------------|-----------------------------|------------------------|
| Frame                 | : 56H               | Locked rotor time           | : 59s (cold) 33s (hot) |
| Output                | : 0.75 HP (0.55 kW) | Temperature rise            | : 80 K                 |
| Poles                 | : 6                 | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz             | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 208-230/460 V     | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 2.78-2.52/1.26 A  | Cooling method              | : IC01 - ODP           |
| L. R. Amperes         | : 16.4-14.9/7.43 A  | Mounting                    | : F-1                  |
| LRC                   | : 5.9x(Code J)      | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| No load current       | : 1.55-1.79/0.896 A | Noise level <sup>2</sup>    | : 50.0 dB(A)           |
| Rated speed           | : 1160 rpm          | Starting method             | : Direct On Line       |
| Slip                  | : 3.33 %            | Approx. weight <sup>3</sup> | : 35.7 lb              |
| Rated torque          | : 3.40 ft.lb        |                             |                        |
| Locked rotor torque   | : 220 %             |                             |                        |
| Breakdown torque      | : 280 %             |                             |                        |
| Insulation class      | : F                 |                             |                        |
| Service factor        | : 1.15              |                             |                        |
| Moment of inertia (J) | : 0.1685 sq.ft.lb   |                             |                        |
| Design                | : A                 |                             |                        |

|                |      |      |      |      |                  |      |      |      |                  |          |
|----------------|------|------|------|------|------------------|------|------|------|------------------|----------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |      |      |      |                  |          |
| Efficiency (%) | 73.7 | 77.6 | 75.5 | 77.2 | 80.0             | 79.0 | 81.7 | 78.0 | Max. traction    | : 95 lb  |
|                | 74.4 |      | 75.2 |      | 78.6             |      | 78.9 |      |                  |          |
| Power Factor   | 0.25 | 0.30 | 0.45 | 0.53 | 0.58             | 0.66 | 0.67 | 0.75 | Max. compression | : 131 lb |
|                | 0.26 |      | 0.47 |      | 0.60             |      | 0.70 |      |                  |          |

|                      |   |  |  |  |                      |                      |
|----------------------|---|--|--|--|----------------------|----------------------|
|                      |   |  |  |  | <u>Drive end</u>     | <u>Non drive end</u> |
| Bearing type         | : |  |  |  | 6204 ZZ              | 6202 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 |                 |           |         |      |
| Checked by   |                 |           |         |      |
| Date         | 27/03/2024      |           |         |      |

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Revision