

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12760979

Catalog # :

|                       |                   |                             |                        |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame                 | : 143/5TC         | Locked rotor time           | : 19s (cold) 11s (hot) |
| Output                | : 2 HP (1.5 kW)   | Temperature rise            | : 105 K                |
| Poles                 | : 4               | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz           | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 230/460 V       | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 5.31/2.65 A     | Protection degree           | : IP55                 |
| L. R. Amperes         | : 43.0/21.5 A     | Cooling method              | : IC410 - TENV         |
| LRC                   | : 8.1x(Code K)    | Mounting                    | : F-1                  |
| No load current       | : 3.10/1.55 A     | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1755 rpm        | Starting method             | : VFD                  |
| Slip                  | : 2.50 %          | Approx. weight <sup>3</sup> | : 61.7 lb              |
| Rated torque          | : 5.98 ft.lb      |                             |                        |
| Locked rotor torque   | : 250 %           |                             |                        |
| Breakdown torque      | : 330 %           |                             |                        |
| Insulation class      | : H               |                             |                        |
| Service factor        | : 1.00            |                             |                        |
| Moment of inertia (J) | : 0.1566 sq.ft.lb |                             |                        |
| Design                | : B               |                             |                        |

|                |       |      |      |      |                  |          |
|----------------|-------|------|------|------|------------------|----------|
| Output         | 25%   | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 0.000 | 85.8 | 86.5 | 86.5 | Max. traction    | : 141 lb |
| Power Factor   | 0.00  | 0.63 | 0.76 | 0.82 | Max. compression | : 203 lb |

|                      |   | Drive end        | Non drive end |
|----------------------|---|------------------|---------------|
| Bearing type         | : | 6205 ZZ          | 6205 ZZ       |
| Sealing              | : | V'Ring           | V'Ring        |
| Lubrication interval | : | 0 h              | 0 h           |
| Lubricant amount     | : | 0 g              | 0 g           |
| 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 / 2<br>Revision |         |      |
| Checked by   |                 |                           |         |      |
| Date         | 06/03/2025      |                           |         |      |

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Customer :

Thermal protection

| ID | Application | Type                 | Quantity  | Sensing Temperature |
|----|-------------|----------------------|-----------|---------------------|
| 1  | Winding     | Thermostat - 2 wires | 1 x Phase | 155 °C              |

|              |                 |  |           |         |          |
|--------------|-----------------|--|-----------|---------|----------|
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|              |                 |  |           |         |          |
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