

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W60 Three-Phase

Product code : 16166677

|                       |                   |                             |                        |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame                 | : 5010/11         | Locked rotor time           | : 34s (cold) 19s (hot) |
| Output                | : 800 HP (590 kW) | Temperature rise            | : 80 K                 |
| Poles                 | : 2               | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz           | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 4160 V          | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 97.7 A          | Protection degree           | : IP24                 |
| L. R. Amperes         | : 635 A           | Mounting                    | : F-1                  |
| LRC                   | : 6.5x(Code G)    | Rotation <sup>1</sup>       | : CW                   |
| No load current       | : 22.4 A          | Noise level <sup>2</sup>    | : 80.0 dB(A)           |
| Rated speed           | : 3556 rpm        | Starting method             | : Direct On Line       |
| Slip                  | : 1.22 %          | Approx. weight <sup>3</sup> | : 4381 lb              |
| Rated torque          | : 1180 ft.lb      |                             |                        |
| Locked rotor torque   | : 80 %            |                             |                        |
| Breakdown torque      | : 210 %           |                             |                        |
| Insulation class      | : F               |                             |                        |
| Service factor        | : 1.00            |                             |                        |
| Moment of inertia (J) | : 85.4 sq.ft.lb   |                             |                        |

|                |      |      |      |      |                  |
|----------------|------|------|------|------|------------------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |
| Efficiency (%) | 94.0 | 94.2 | 95.2 | 95.2 | Max. traction    |
| Power Factor   | 0.61 | 0.84 | 0.86 | 0.88 | Max. compression |

|                      | Drive end              | Non drive end          |
|----------------------|------------------------|------------------------|
| Bearing type         | : 6218 C4              | : 6218 C4              |
| Sealing              | : Without Bearing Seal | : Without Bearing Seal |
| Lubrication interval | : 12045 h              | : 12045 h              |
| Lubricant amount     | : 24 g                 | : 24 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         | 27/03/2024      |                           |         |      |

Customer :

Thermal protection

| ID | Application | Type            | Quantity    | Sensing Temperature |
|----|-------------|-----------------|-------------|---------------------|
| 1  | Winding     | PT100 - 3 wires | 2 x Phase   | -                   |
| 2  | DE bearing  | PT100 - 3 wires | 1 x Bearing | -                   |
| 3  | NDE bearing | PT100 - 3 wires | 1 x Bearing | -                   |

Space heater information

Voltage: 110-127/200-240 V

|              |                 |  |           |         |          |
|--------------|-----------------|--|-----------|---------|----------|
| Rev.         | Changes Summary |  | Performed | Checked | Date     |
|              |                 |  |           |         |          |
| Performed by |                 |  |           | Page    | Revision |
| Checked by   |                 |  |           | 2 / 2   |          |
| Date         | 27/03/2024      |  |           |         |          |