

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W60 Standard Efficiency Three-Phase Product code : 16166550

|                       |                     |                             |                       |
|-----------------------|---------------------|-----------------------------|-----------------------|
| Frame                 | : 5810/11           | Locked rotor time           | : 12s (cold) 7s (hot) |
| Output                | : 1500 HP (1100 kW) | Temperature rise            | : 80 K                |
| Poles                 | : 2                 | Duty cycle                  | : Cont.(S1)           |
| Frequency             | : 60 Hz             | Ambient temperature         | : -20°C to +40°C      |
| Rated voltage         | : 690 V             | Altitude                    | : 1000 m.a.s.l.       |
| Rated current         | : 1080 A            | Protection degree           | : IP24                |
| L. R. Amperes         | : 7020 A            | Mounting                    | : F-1                 |
| LRC                   | : 6.5x(Code F)      | Rotation <sup>1</sup>       | : CW                  |
| No load current       | : 367 A             | Noise level <sup>2</sup>    | : 85.0 dB(A)          |
| Rated speed           | : 3568 rpm          | Starting method             | : Direct On Line      |
| Slip                  | : 0.89 %            | Approx. weight <sup>3</sup> | : 5984 lb             |
| Rated torque          | : 2210 ft.lb        |                             |                       |
| Locked rotor torque   | : 100 %             |                             |                       |
| Breakdown torque      | : 250 %             |                             |                       |
| Insulation class      | : F                 |                             |                       |
| Service factor        | : 1.00              |                             |                       |
| Moment of inertia (J) | : 93.6 sq.ft.lb     |                             |                       |

|                |      |      |      |      |                  |
|----------------|------|------|------|------|------------------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |
| Efficiency (%) | 96.6 | 96.7 | 97.0 | 97.0 | Max. traction    |
| Power Factor   | 0.50 | 0.76 | 0.85 | 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      |         | Revision |
| Checked by   |                 | 1 / 2     |         |          |
| Date         | 27/03/2024      |           |         |          |

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### 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

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