

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump High Efficiency Three-Phase Product code : 10828276

|                       |                 |                             |                        |
|-----------------------|-----------------|-----------------------------|------------------------|
| Frame                 | : 284JP         | Locked rotor time           | : 21s (cold) 12s (hot) |
| Output                | : 30 HP (22 kW) | Temperature rise            | : 80 K                 |
| Poles                 | : 2             | 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         | : 79.3/39.7 A   | Protection degree           | : IP23                 |
| L. R. Amperes         | : 492/246 A     | Cooling method              | : IC01 - ODP           |
| LRC                   | : 6.2x(Code G)  | Mounting                    | : F-1                  |
| No load current       | : 20.9/10.5 A   | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 3540 rpm      | Noise level <sup>2</sup>    | : 72.0 dB(A)           |
| Slip                  | : 1.67 %        | Starting method             | : Direct On Line       |
| Rated torque          | : 44.5 ft.lb    | Approx. weight <sup>3</sup> | : 317 lb               |
| Locked rotor torque   | : 200 %         |                             |                        |
| Breakdown torque      | : 270 %         |                             |                        |
| Insulation class      | : F             |                             |                        |
| Service factor        | : 1.15          |                             |                        |
| Moment of inertia (J) | : 1.68 sq.ft.lb |                             |                        |
| Design                | : B             |                             |                        |

|                |      |      |      |      |                  |          |
|----------------|------|------|------|------|------------------|----------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 90.9 | 91.0 | 91.0 | 91.0 | Max. traction    | : 365 lb |
| Power Factor   | 0.57 | 0.80 | 0.86 | 0.88 | Max. compression | : 682 lb |

|                      |   |                      |                      |
|----------------------|---|----------------------|----------------------|
|                      |   | <u>Drive end</u>     | <u>Non drive end</u> |
| Bearing type         | : | 6311 Z C3            | 6211 Z C3            |
| Sealing              | : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : | 20000 h              | 20000 h              |
| Lubricant amount     | : | 18 g                 | 11 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 / 1 |          |      |
| Checked by   |                 |               |          |      |
| Date         | 28/03/2024      |               |          |      |
|              |                 |               | Revision |      |