

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase      Product code : 14486171  
Catalog # : 02018OT3H256JP-W40

|                       |                 |                             |                        |
|-----------------------|-----------------|-----------------------------|------------------------|
| Frame                 | : 254/6JP       | Locked rotor time           | : 46s (cold) 26s (hot) |
| Output                | : 20 HP (15 kW) | Temperature rise            | : 80 K                 |
| Poles                 | : 4             | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz         | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 575 V         | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 19.3 A        | Protection degree           | : IP23                 |
| L. R. Amperes         | : 123 A         | Cooling method              | : IC01 - ODP           |
| LRC                   | : 6.4x(Code G)  | Mounting                    | : F-1                  |
| No load current       | : 8.00 A        | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1770 rpm      | Noise level <sup>2</sup>    | : 62.0 dB(A)           |
| Slip                  | : 1.67 %        | Starting method             | : Direct On Line       |
| Rated torque          | : 59.3 ft.lb    | Approx. weight <sup>3</sup> | : 304 lb               |
| Locked rotor torque   | : 220 %         |                             |                        |
| Breakdown torque      | : 250 %         |                             |                        |
| Insulation class      | : F             |                             |                        |
| Service factor        | : 1.25          |                             |                        |
| Moment of inertia (J) | : 3.13 sq.ft.lb |                             |                        |
| Design                | : B             |                             |                        |

|                |      |      |      |      |                  |
|----------------|------|------|------|------|------------------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |
| Efficiency (%) | 92.2 | 92.4 | 93.0 | 93.0 | Max. traction    |
| Power Factor   | 0.43 | 0.69 | 0.79 | 0.84 | Max. compression |

|                      |   |                      |                      |
|----------------------|---|----------------------|----------------------|
|                      |   | <u>Drive end</u>     | <u>Non drive end</u> |
| Bearing type         | : | 6309 Z C3            | 6209 Z C3            |
| Sealing              | : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : | 20000 h              | 20000 h              |
| Lubricant amount     | : | 13 g                 | 9 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<br>1 / 1 |         |      |
| Checked by   |                 |                             |         |      |
| Date         | 30/03/2024      |                             |         |      |