

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium Efficiency Three-Phase      Product code : 14484569  
Catalog # : 02036OT3V254JM-W40

|                       |                   |                             |                        |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame                 | : 254JM           | Locked rotor time           | : 21s (cold) 12s (hot) |
| Output                | : 20 HP (15 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         | : 55.9/27.9 A     | Protection degree           | : IP23                 |
| L. R. Amperes         | : 352/176 A       | Cooling method              | : IC01 - ODP           |
| LRC                   | : 6.3x(Code G)    | Mounting                    | : F-1                  |
| No load current       | : 19.3/9.66 A     | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 3535 rpm        | Starting method             | : Direct On Line       |
| Slip                  | : 1.81 %          | Approx. weight <sup>3</sup> | : 213 lb               |
| Rated torque          | : 29.7 ft.lb      |                             |                        |
| Locked rotor torque   | : 200 %           |                             |                        |
| Breakdown torque      | : 280 %           |                             |                        |
| Insulation class      | : F               |                             |                        |
| Service factor        | : 1.25            |                             |                        |
| Moment of inertia (J) | : 0.8718 sq.ft.lb |                             |                        |
| Design                | : B               |                             |                        |

|                |      |      |      |      |                  |
|----------------|------|------|------|------|------------------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |
| Efficiency (%) | 90.0 | 90.2 | 91.0 | 91.0 | Max. traction    |
| Power Factor   | 0.48 | 0.72 | 0.82 | 0.85 | Max. compression |

|                      | Drive end              | Non drive end          |
|----------------------|------------------------|------------------------|
| 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 |                 |           |         |      |
| Checked by   |                 |           |         |      |
| Date         | 11/04/2020      |           |         |      |

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