

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Jet Pump - C type Premium      Product code : 14788846  
Efficiency Three-Phase      Catalog # : 00236ET3EJPR56C-S

|                       |                   |                             |                        |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame                 | : 56C             | Locked rotor time           | : 23s (cold) 13s (hot) |
| Output                | : 2 HP (1.5 kW)   | Temperature rise            | : 80 K                 |
| Poles                 | : 2               | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz           | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 230/460 V       | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 4.94/2.47 A     | Protection degree           | : IP55                 |
| L. R. Amperes         | : 48.9/24.5 A     | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 9.9x(Code L)    | Mounting                    | : F-1                  |
| No load current       | : 2.13/1.06 A     | Rotation <sup>1</sup>       | : CCW                  |
| Rated speed           | : 3520 rpm        | Noise level <sup>2</sup>    | : 68.0 dB(A)           |
| Slip                  | : 2.22 %          | Starting method             | : Direct On Line       |
| Rated torque          | : 2.98 ft.lb      | Approx. weight <sup>3</sup> | : 39.5 lb              |
| Locked rotor torque   | : 250 %           |                             |                        |
| Breakdown torque      | : 300 %           |                             |                        |
| Insulation class      | : F               |                             |                        |
| Service factor        | : 1.15            |                             |                        |
| Moment of inertia (J) | : 0.1279 sq.ft.lb |                             |                        |
| Design                | : B               |                             |                        |

| Output         | 25%  |      | 50%  |      | 75%  |      | 100% |      | Foundation loads |          |
|----------------|------|------|------|------|------|------|------|------|------------------|----------|
| Efficiency (%) | 82.1 | 84.8 | 82.5 | 84.0 | 85.5 | 84.6 | 85.5 | 83.3 | Max. traction    | : 101 lb |
|                | 83.3 |      | 83.3 |      | 84.9 |      | 84.5 |      |                  |          |
| Power Factor   | 0.45 | 0.51 | 0.73 | 0.79 | 0.83 | 0.88 | 0.89 | 0.92 | Max. compression | : 140 lb |
|                | 0.45 |      | 0.73 |      | 0.84 |      | 0.89 |      |                  |          |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6203 2RS         | 6202 2RS             |
| Sealing              | : | V'Ring           | Without Bearing Seal |
| Lubrication interval | : | -                | -                    |
| Lubricant amount     | : | -                | -                    |
| 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         | 27/03/2024      |               |          |      |
|              |                 |               | Revision |      |