## **DATA SHEET**

## Single Phase Induction Motor - Squirrel Cage



| Customer                                       |      | :                              |   |               |  |  |  |
|--|------|--------------------------------|---|---------------|--|--|--|
| Product line                                   |      | : Jet Pump - J type Single-Pha | 14627823                                    |               |  |  |  |
| Frame  |      | : 56J                          | Cooling method                              | : IC01 - ODP  |  |  |  |
| Insulation class                               |      | : F                            | Mounting                                    | : F-1         |  |  |  |
| Duty cycle                                     |      | : Cont.(S1)                    | Rotation <sup>1</sup>                       | : CCW         |  |  |  |
| Ambient temperature                            |      | : -20°C to +40°C               | : Direct On Line                            |               |  |  |  |
| Altitude                                       |      | : 1000 m.a.s.l.                | Starting method Approx. weight <sup>3</sup> | : 21.0 kg     |  |  |  |
| Design   |      | : L                            | Moment of inertia (J)                       | : 0.0040 kgm² |  |  |  |
| Output [HP]                                    |      | 3                              |   |               |  |  |  |
| Poles  |      | 2                              |   |               |  |  |  |
| Frequency [Hz]                                 |      |                                | 60  |               |  |  |  |
| Rated voltage [V]                              |      |                                | 230   |               |  |  |  |
| Rated current [A]                              |      | 12.2                           |   |               |  |  |  |
| L. R. Amperes [A]                              |      |                                | 100   |               |  |  |  |
| LRC [A]  |      |                                | 8.2x(Code J)                                |               |  |  |  |
| No load current [A]                            |      |                                | 3.90  |               |  |  |  |
| Rated speed [RPM]                              |      | 3500                           |   |               |  |  |  |
| Slip [%]                                       |      | 2.78                           |   |               |  |  |  |
| Rated torque [kgfm]                            |      | 0.622                          |   |               |  |  |  |
| Locked rotor torque                            |      | 220                            |   |               |  |  |  |
| Breakdown torque                               | [%]  | 280                            |   |               |  |  |  |
| Service factor                                 |      | 1.15                           |   |               |  |  |  |
| Temperature rise                               |      | 80 K                           |   |               |  |  |  |
| Locked rotor time                              |      | 10s (cold) 6s (hot)            |   |               |  |  |  |
| Noise level <sup>2</sup>                       |      | 58.0 dB(A)                     |   |               |  |  |  |
|  | 25%  |                                |   |               |  |  |  |
| <b>⊏</b> #:::::::::::::::::::::::::::::::::::: | 50%  | 76.0                           |   |               |  |  |  |
| Efficiency (%)                                 | 75%  | 81.0                           |   |               |  |  |  |
| -  | 100% | 84.1                           |   |               |  |  |  |
|  | 25%  |                                |   |               |  |  |  |
| Dawar Faataa                                   | 50%  |                                |   |               |  |  |  |
| Power Factor                                   | 75%  | 0.87<br>0.92                   |   |               |  |  |  |
|  | 100% | 0.93                           |   |               |  |  |  |
|  |      | Drive end Non drive end        | Foundation loads                            |               |  |  |  |
| Bearing type                                   |      | : 6203 2RS 6202 2RS            | Max. traction                               | : 45 kgf      |  |  |  |
| Sealing  |      | : Without Without              | Max. compression                            |               |  |  |  |
|  |      | Bearing Seal Bearing Seal      |   |               |  |  |  |
| Lubrication interval                           |      | :                              |   |               |  |  |  |
| Lubricant amount                               |      | :                              |   |               |  |  |  |
| Lubricant type                                 |      | : Mobil Polyrex EM             |   |               |  |  |  |
| Notes  |      |                                | 1   |               |  |  |  |
| 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                              |            |                 |           |  | Page    | Revision |
| Date                                    | 17/05/2022 |                 |           |  | 1/2     |          |

## LOAD PERFORMANCE CURVE

## Single Phase Induction Motor - Squirrel Cage



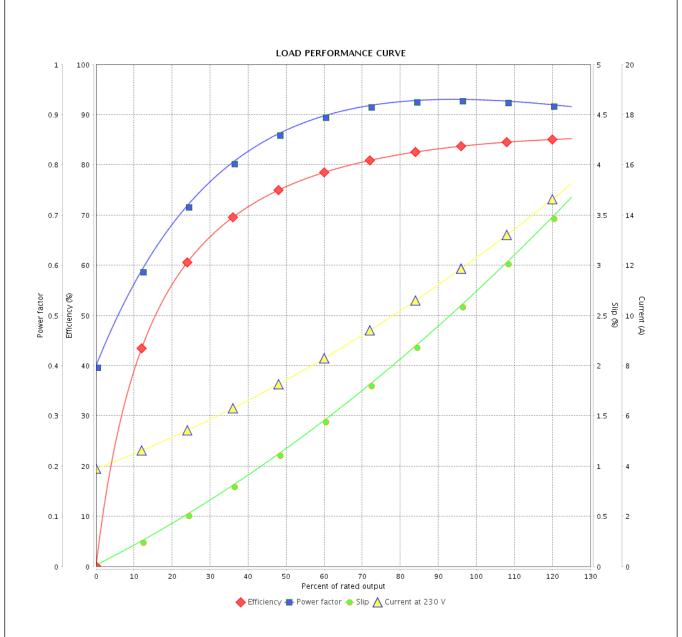
Customer :

Checked by

Date

17/05/2022

Product line : Jet Pump - J type Single-Phase Product code : 14627823



| Performance   | : 2                             | 30 V 60 Hz 2P  |   |               |  |      |
|---|---------------------------------|--|---|---------------|--|------|
| Rated current<br>LRC<br>Rated torque<br>Locked rotor tord<br>Breakdown torqu<br>Rated speed | : 8<br>: 0<br>uue : 2<br>ie : 2 | 2.2 A<br>5.2<br>1.622 kgfm<br>120 %<br>180 %<br>1500 rpm | Moment of Duty cycle Insulation Service fa Temperate Design | class<br>ctor | : 0.0040 kgm²<br>: Cont.(S1)<br>: F<br>: 1.15<br>: 80 K<br>: L |      |
| Rev.  | Changes Summary                 |  |   | Performed     | Checked  | Date |
|   |                                 |  |   |               |  |      |
| Performed by  |                                 |  |   |               |  |      |

Page

2/2

Revision

