

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|  |   |           |         |          |
|--|---|-----------|---------|----------|
| Customer :   |   |           |         |          |
| Product line   | : Jet Pump - C type Three-Phase                           |           |         |          |
| Product code :   | 13722261  |           |         |          |
| Frame  | : W56C  |           |         |          |
| Insulation class   | : F   |           |         |          |
| Duty cycle   | : Cont.(S1)   |           |         |          |
| Ambient temperature  | : -20°C to +40°C  |           |         |          |
| Altitude   | : 1000 m.a.s.l.   |           |         |          |
| Protection degree  | : IP55  |           |         |          |
| Cooling method   | : IC411 - TEFC  |           |         |          |
| Mounting   | : W-6   |           |         |          |
| Rotation <sup>1</sup>  | : CCW   |           |         |          |
| Starting method  | : Direct On Line  |           |         |          |
| Approx. weight <sup>3</sup>  | : 7.9 kg  |           |         |          |
| Moment of inertia (J)  | : 0.0008 kgm <sup>2</sup>                                 |           |         |          |
| Output [HP]  | 0.5   |           |         |          |
| Poles  | 2   |           |         |          |
| Frequency [Hz]   | 60  |           |         |          |
| Rated voltage [V]  | 575   |           |         |          |
| Rated current [A]  | 0.627   |           |         |          |
| L. R. Amperes [A]  | 4.83  |           |         |          |
| LRC [A]  | 7.7x(Code L)  |           |         |          |
| No load current [A]  | 0.334   |           |         |          |
| Rated speed [RPM]  | 3435  |           |         |          |
| Slip [%]   | 4.58  |           |         |          |
| Rated torque [kgfm]  | 0.106   |           |         |          |
| Locked rotor torque [%]  | 330   |           |         |          |
| Breakdown torque [%]   | 360   |           |         |          |
| Service factor   | 1.15  |           |         |          |
| Temperature rise   | 80 K  |           |         |          |
| Locked rotor time  | 32s (cold) 18s (hot)                                      |           |         |          |
| Noise level <sup>2</sup>   | 65.0 dB(A)  |           |         |          |
| Efficiency (%)   | 25%   |           |         |          |
|  | 50%   | 68.0      |         |          |
|  | 75%   | 72.0      |         |          |
|  | 100%  | 74.0      |         |          |
| Power Factor   | 25%   |           |         |          |
|  | 50%   | 0.64      |         |          |
|  | 75%   | 0.75      |         |          |
|  | 100%  | 0.80      |         |          |
| Bearing type   | : <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS |           |         |          |
| Sealing  | : V'Ring V'Ring   |           |         |          |
| Lubrication interval   | : - -   |           |         |          |
| Lubricant amount   | : - -   |           |         |          |
| Lubricant type   | : Mobil Polyrex EM  |           |         |          |
| Foundation loads   | Max. traction : 8 kgf                                     |           |         |          |
|  | Max. compression : 16 kgf                                 |           |         |          |
| Notes  |   |           |         |          |
| This revision replaces and cancel the previous one, which must be eliminated.<br>(1) Looking the motor from the shaft end.<br>(2) Measured at 1m and with tolerance of +3dB(A).<br>(3) Approximate weight subject to changes after manufacturing process.<br>(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

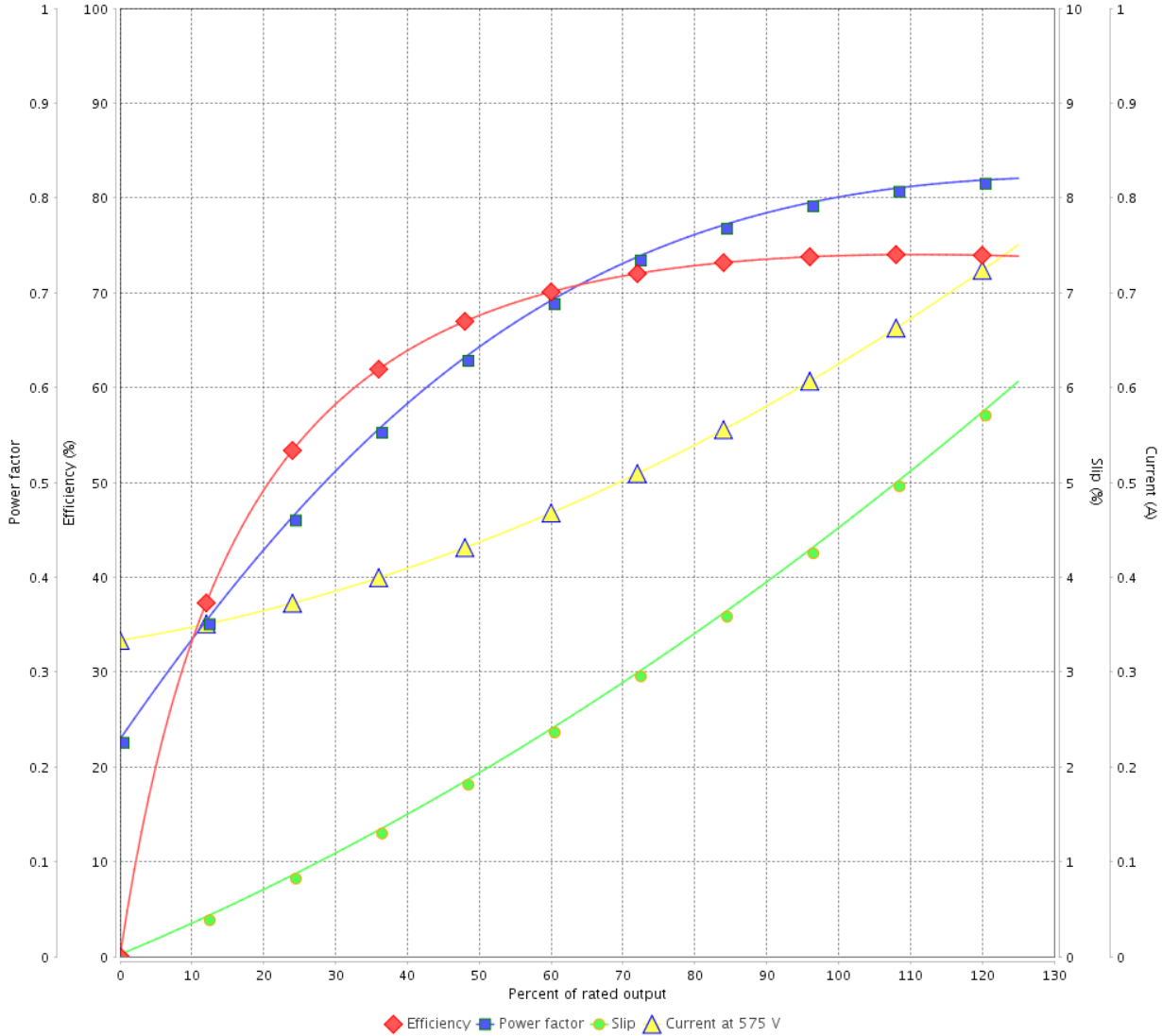
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - C type Three-Phase      Product code : 13722261

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

|                     |              |                       |                           |
|---------------------|--------------|-----------------------|---------------------------|
| Rated current       | : 0.627 A    | Moment of inertia (J) | : 0.0008 kgm <sup>2</sup> |
| LRC                 | : 7.7        | Duty cycle            | : Cont.(S1)               |
| Rated torque        | : 0.106 kgfm | Insulation class      | : F                       |
| Locked rotor torque | : 330 %      | Service factor        | : 1.15                    |
| Breakdown torque    | : 360 %      | Temperature rise      | : 80 K                    |
| Rated speed         | : 3435 rpm   |                       |                           |

| Rev.         | Changes Summary | Performed | Checked       | Date     |
|--------------|-----------------|-----------|---------------|----------|
|              |                 |           |               |          |
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| Checked by   |                 |           |               |          |
| Date         | 17/05/2022      |           |               |          |