

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|                                                                                                                                                                                                                                                                                        |                 |                                                    |                                                                                                                          |                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Customer :                                                                                                                                                                                                                                                                             |                 |                                                    |                                                                                                                          |                           |
| Product line                                                                                                                                                                                                                                                                           |                 | : Jet Pump - J type Premium Efficiency Three-Phase |                                                                                                                          | Product code : 14689310   |
| Frame : W56J                                                                                                                                                                                                                                                                           |                 | 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                                                                                                                                                                                                                                                   |                 | Starting method : Direct On Line                   |                                                                                                                          |                           |
| Altitude : 1000 m.a.s.l.                                                                                                                                                                                                                                                               |                 | Approx. weight <sup>3</sup> : 7.6 kg               |                                                                                                                          |                           |
|                                                                                                                                                                                                                                                                                        |                 | Moment of inertia (J) : 0.0008 kgm <sup>2</sup>    |                                                                                                                          |                           |
| Output [HP]                                                                                                                                                                                                                                                                            |                 | 0.75                                               |                                                                                                                          |                           |
| Poles                                                                                                                                                                                                                                                                                  |                 | 2                                                  |                                                                                                                          |                           |
| Frequency [Hz]                                                                                                                                                                                                                                                                         |                 | 60                                                 |                                                                                                                          |                           |
| Rated voltage [V]                                                                                                                                                                                                                                                                      |                 | 575                                                |                                                                                                                          |                           |
| Rated current [A]                                                                                                                                                                                                                                                                      |                 | 0.944                                              |                                                                                                                          |                           |
| L. R. Amperes [A]                                                                                                                                                                                                                                                                      |                 | 7.36                                               |                                                                                                                          |                           |
| LRC [A]                                                                                                                                                                                                                                                                                |                 | 7.8x(Code L)                                       |                                                                                                                          |                           |
| No load current [A]                                                                                                                                                                                                                                                                    |                 | 0.640                                              |                                                                                                                          |                           |
| Rated speed [RPM]                                                                                                                                                                                                                                                                      |                 | 3450                                               |                                                                                                                          |                           |
| Slip [%]                                                                                                                                                                                                                                                                               |                 | 4.17                                               |                                                                                                                          |                           |
| Rated torque [kgfm]                                                                                                                                                                                                                                                                    |                 | 0.158                                              |                                                                                                                          |                           |
| Locked rotor torque [%]                                                                                                                                                                                                                                                                |                 | 370                                                |                                                                                                                          |                           |
| Breakdown torque [%]                                                                                                                                                                                                                                                                   |                 | 400                                                |                                                                                                                          |                           |
| Service factor                                                                                                                                                                                                                                                                         |                 | 1.50                                               |                                                                                                                          |                           |
| Temperature rise                                                                                                                                                                                                                                                                       |                 | 80 K                                               |                                                                                                                          |                           |
| Locked rotor time                                                                                                                                                                                                                                                                      |                 | 32s (cold) 18s (hot)                               |                                                                                                                          |                           |
| Noise level <sup>2</sup>                                                                                                                                                                                                                                                               |                 | 62.0 dB(A)                                         |                                                                                                                          |                           |
| Efficiency (%)                                                                                                                                                                                                                                                                         | 25%             |                                                    |                                                                                                                          |                           |
|                                                                                                                                                                                                                                                                                        | 50%             | 68.0                                               |                                                                                                                          |                           |
|                                                                                                                                                                                                                                                                                        | 75%             | 72.0                                               |                                                                                                                          |                           |
|                                                                                                                                                                                                                                                                                        | 100%            | 76.8                                               |                                                                                                                          |                           |
| Power Factor                                                                                                                                                                                                                                                                           | 25%             |                                                    |                                                                                                                          |                           |
|                                                                                                                                                                                                                                                                                        | 50%             | 0.57                                               |                                                                                                                          |                           |
|                                                                                                                                                                                                                                                                                        | 75%             | 0.69                                               |                                                                                                                          |                           |
|                                                                                                                                                                                                                                                                                        | 100%            | 0.76                                               |                                                                                                                          |                           |
| Bearing type : 6203 2RS                                                                                                                                                                                                                                                                |                 | Drive end                                          | Non drive end                                                                                                            | Foundation loads          |
| Sealing : Without                                                                                                                                                                                                                                                                      |                 |                                                    |                                                                                                                          | Max. traction : 16 kgf    |
|                                                                                                                                                                                                                                                                                        |                 | Bearing Seal                                       | Bearing Seal                                                                                                             | Max. compression : 24 kgf |
| Lubrication interval : -                                                                                                                                                                                                                                                               |                 | -                                                  | -                                                                                                                        |                           |
| Lubricant amount : -                                                                                                                                                                                                                                                                   |                 | -                                                  | -                                                                                                                        |                           |
| Lubricant type : Mobil Polyrex EM                                                                                                                                                                                                                                                      |                 |                                                    |                                                                                                                          |                           |
| 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                   |
|                                                                                                                                                                                                                                                                                        |                 |                                                    |                                                                                                                          |                           |
| Performed by                                                                                                                                                                                                                                                                           |                 |                                                    |                                                                                                                          |                           |
| Checked by                                                                                                                                                                                                                                                                             |                 |                                                    | Page                                                                                                                     | Revision                  |
| Date                                                                                                                                                                                                                                                                                   | 17/05/2022      |                                                    | 1 / 2                                                                                                                    |                           |

# LOAD PERFORMANCE CURVE

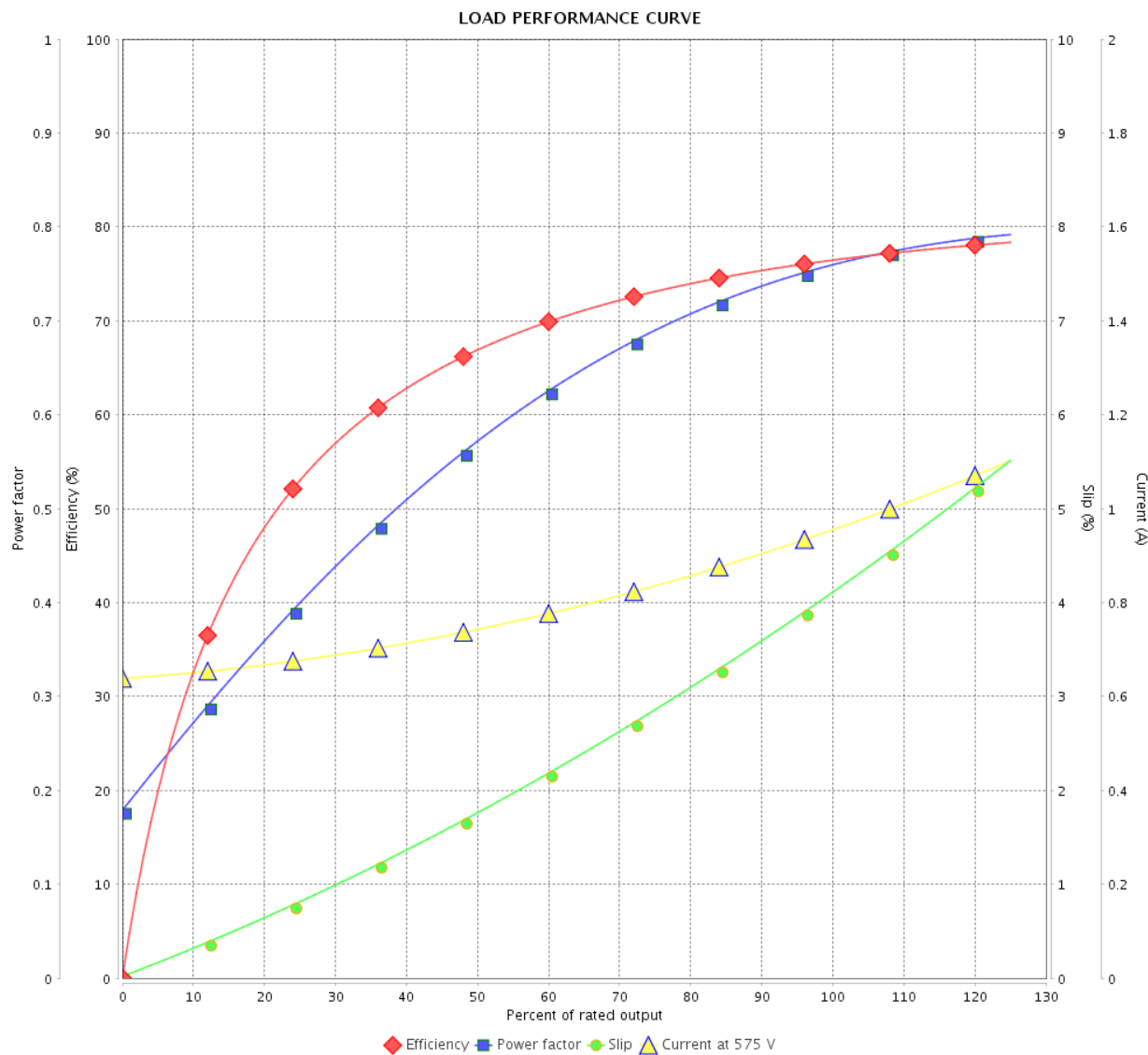
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Premium  
Efficiency Three-Phase

Product code : 14689310



Performance : 575 V 60 Hz 2P

Rated current : 0.944 A  
LRC : 7.8  
Rated torque : 0.158 kgfm  
Locked rotor torque : 370 %  
Breakdown torque : 400 %  
Rated speed : 3450 rpm

Moment of inertia (J) : 0.0008 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.50  
Temperature rise : 80 K

| Rev.         | Changes Summary | Performed                                 | Checked | Date |
|--------------|-----------------|-------------------------------------------|---------|------|
|              |                 |                                           |         |      |
| Performed by |                 | <div>Page 2 / 2</div> <div>Revision</div> |         |      |
| Checked by   |                 |                                           |         |      |
| Date         | 17/05/2022      |                                           |         |      |

