

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

|   |  |                             |   |          |          |
|---|--|-----------------------------|---|----------|----------|
| Customer  |  |                             |   |          |          |
| Product line  | : Jet Pump - C type Premium Efficiency Three-Phase | Product code :              | 14453253  |          |          |
| Frame   | : W56C   | 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  | : Drive end : 6203 2RS                             | Non drive end : 6202 2RS    | Foundation loads  |          |          |
| Sealing   | : Without  | Without                     | Max. traction   | : 16 kgf |          |
|   | Bearing Seal                                       | Bearing Seal                | Max. compression  | : 24 kgf |          |
| Lubrication interval  | : -  | -                           |   |          |          |
| Lubricant amount  | : -  | -                           |   |          |          |
| Lubricant type  | : Mobil Polyrex EM                                 |                             |   |          |          |
| Notes   |  |                             |   |          |          |
| <p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p> |  |                             | <p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p> |          |          |
| 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

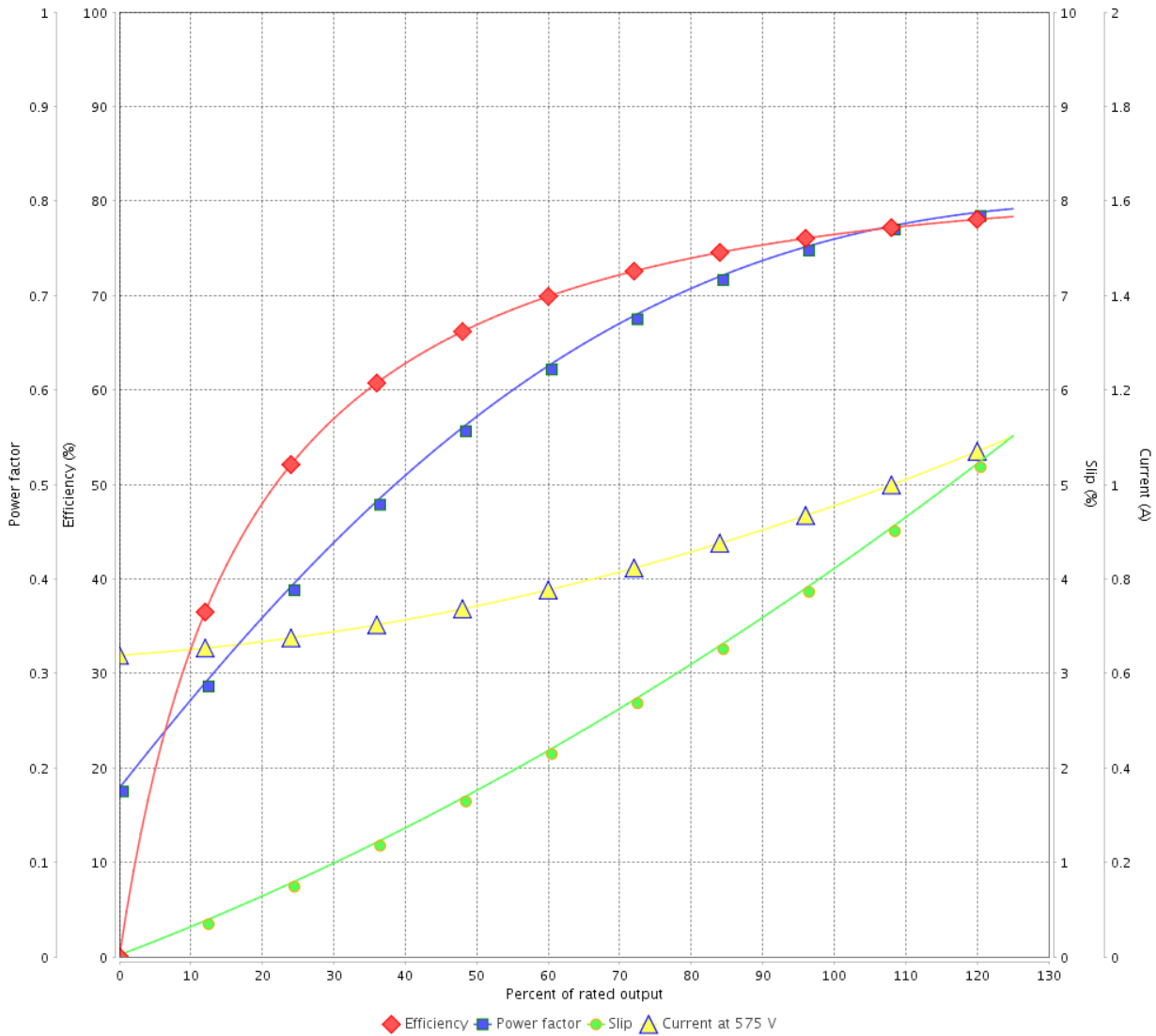


Customer :

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

Product code : 14453253

LOAD PERFORMANCE CURVE



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     |
|--------------|-----------------|-----------|---------|----------|
|              |                 |           |         |          |
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