

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

|  |                           |   |  |                            |          |
|--|---------------------------|---|--|----------------------------|----------|
| Customer :   |                           |   |  |                            |          |
| Product line   |                           | : Close Coupled Pump Standard<br>Efficiency Three-Phase |  | Product code : 14966670    |          |
| Frame  | : 286JP                   | Locked rotor time                                       | : 23s (cold) 13s (hot)   |                            |          |
| Output   | : 30 HP (22 kW)           | Temperature rise  | : 80 K   |                            |          |
| Poles  | : 4                       | Duty cycle  | : Cont.(S1)  |                            |          |
| Frequency  | : 60 Hz                   | Ambient temperature                                     | : -20°C to +40°C   |                            |          |
| Rated voltage  | : 575 V                   | Altitude  | : 1000 m.a.s.l.  |                            |          |
| Rated current  | : 29.2 A                  | Protection degree                                       | : IP23   |                            |          |
| L. R. Amperes  | : 169 A                   | Cooling method  | : IC01 - ODP   |                            |          |
| LRC  | : 5.8x(Code G)            | Mounting  | : F-1  |                            |          |
| No load current  | : 12.4 A                  | Rotation <sup>1</sup>                                   | : Both (CW and CCW)  |                            |          |
| Rated speed  | : 1760 rpm                | Noise level <sup>2</sup>                                | : 63.0 dB(A)   |                            |          |
| Slip   | : 2.22 %                  | Starting method   | : Direct On Line   |                            |          |
| Rated torque   | : 12.4 kgfm               | Approx. weight <sup>3</sup>                             | : 153 kg   |                            |          |
| Locked rotor torque  | : 229 %                   |   |  |                            |          |
| Breakdown torque   | : 240 %                   |   |  |                            |          |
| Insulation class   | : F                       |   |  |                            |          |
| Service factor   | : 1.15                    |   |  |                            |          |
| Moment of inertia (J)  | : 0.1121 kgm <sup>2</sup> |   |  |                            |          |
| Design   | : B                       |   |  |                            |          |
| Output   | 50%                       | 75%   | 100%   | Foundation loads           |          |
| Efficiency (%)   | 89.5                      | 90.0  | 90.2   | Max. traction : 348 kgf    |          |
| Power Factor   | 0.70                      | 0.79  | 0.84   | Max. compression : 501 kgf |          |
|  |                           | <u>Drive end</u>  | <u>Non drive end</u>   |                            |          |
| Bearing type   | :                         | 6311 Z C3   | 6211 Z C3  |                            |          |
| Sealing  | :                         | Without Bearing Seal                                    | Without Bearing Seal   |                            |          |
| Lubrication interval   | :                         | 20000 h   | 20000 h  |                            |          |
| Lubricant amount   | :                         | 18 g  | 11 g   |                            |          |
| 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                    | Date     |
| Performed by   |                           |   |  |                            |          |
| Checked by   |                           |   |  | Page                       | Revision |
| Date   | 24/10/2024                |   |  | 1 / 2                      |          |

# LOAD PERFORMANCE CURVE

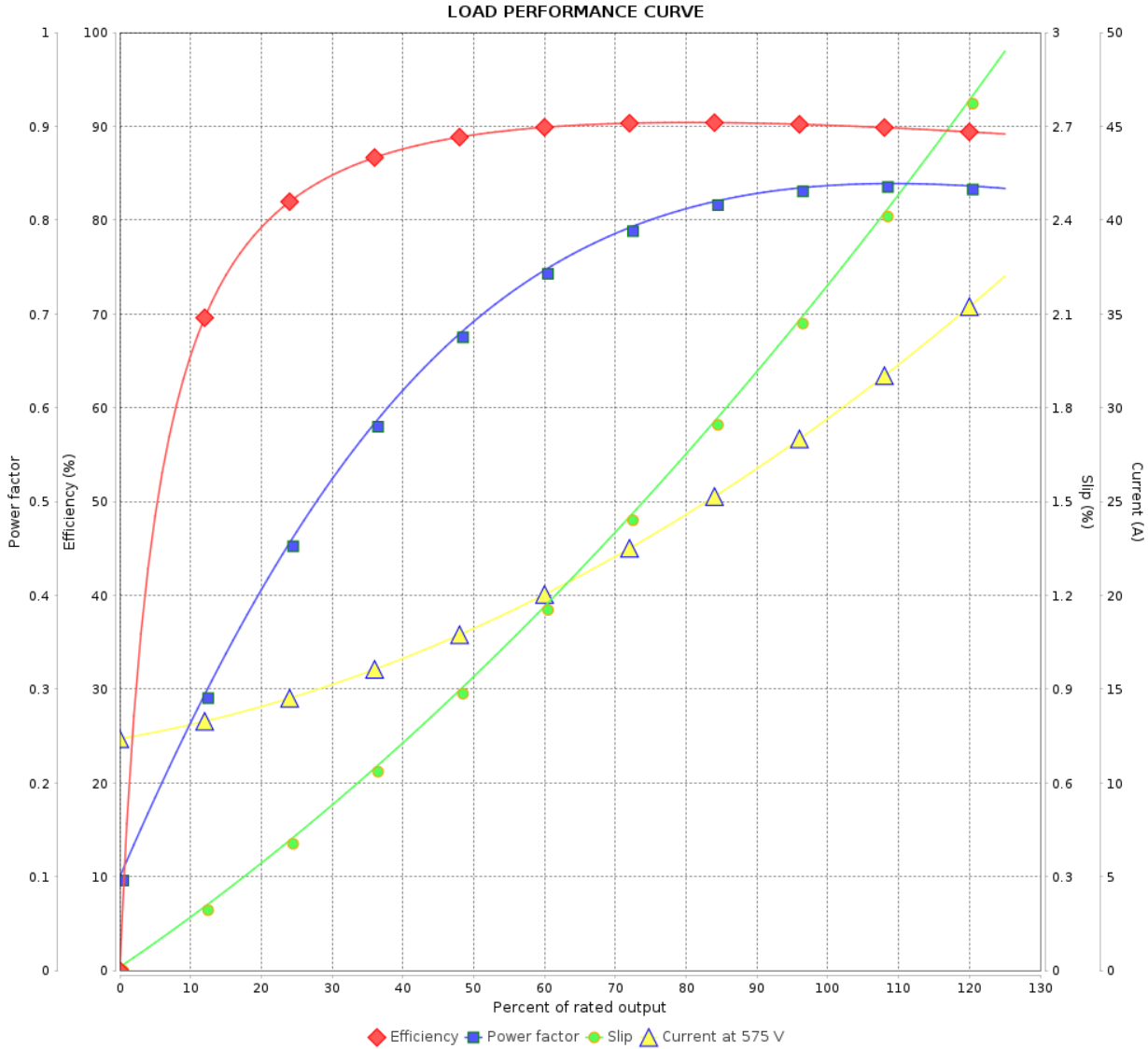
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump Standard  
Efficiency Three-Phase

Product code : 14966670



Performance : 575 V 60 Hz 4P

Rated current : 29.2 A  
 LRC : 5.8  
 Rated torque : 12.4 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 240 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.1121 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

| Rev.         | Changes Summary | Performed | Checked | Date     |
|--------------|-----------------|-----------|---------|----------|
|              |                 |           |         |          |
| Performed by |                 |           | Page    | Revision |
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| Date         |                 |           |         |          |

