

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

|  |                 |  |      |                             |         |                     |  |
|--|-----------------|--|------|-----------------------------|---------|---------------------|--|
| Customer :   |                 |  |      |                             |         |                     |  |
| Product line   |                 | : Rolled Steel NEMA Premium Efficiency Three-Phase |      | Product code : 12706984     |         |                     |  |
| Frame  | :               | 254/6TC  |      | Locked rotor time           | :       | 16s (cold) 9s (hot) |  |
| Output   | :               | 25 HP (18.5 kW)                                    |      | Temperature rise            | :       | 80 K                |  |
| Frequency  | :               | 60 Hz  |      | Duty cycle                  | :       | Cont.(S1)           |  |
| Rated voltage  | :               | 575 V  |      | Ambient temperature         | :       | -20°C to +40°C      |  |
| Poles  | :               | 2  |      | Altitude                    | :       | 1000 m.a.s.l.       |  |
| Rated current  | :               | 23.3 A   |      | Cooling method              | :       | IC01 - ODP          |  |
|  | :               | 6.3x(Code G)                                       |      | Mounting                    | :       | F-1                 |  |
| Rated speed  | :               | 3530 rpm   |      | Rotation <sup>1</sup>       | :       | Both (CW and CCW)   |  |
| Rated torque   | :               | 5.14 kgfm  |      | Noise level <sup>2</sup>    | :       | 70.0 dB(A)          |  |
| Insulation class   | :               | F  |      | Starting method             | :       | Direct On Line      |  |
| Service factor   | :               | 1.15   |      | Approx. weight <sup>3</sup> | :       | 88.9 kg             |  |
| Moment of inertia (J)  | :               | 0.0386 kgm <sup>2</sup>                            |      |                             |         |                     |  |
| Design   | :               | B  |      |                             |         |                     |  |
| Output   | 50%             | 75%  | 100% | Foundation loads            |         |                     |  |
| Efficiency (%)   | 91.0            | 91.7   | 91.7 | Max. traction : 190 kgf     |         |                     |  |
| Power Factor   | 0.73            | 0.83   | 0.87 | Max. compression : 279 kgf  |         |                     |  |
|  |                 |  |      |                             |         |                     |  |
| Bearing type   | :               | Drive end<br>6309 Z C3                             |      | Non drive end<br>6208 Z C3  |         |                     |  |
| Sealing  | :               | Without Bearing Seal                               |      | Without Bearing Seal        |         |                     |  |
| Lubrication interval   | :               | 20000 h  |      | 20000 h                     |         |                     |  |
| Lubricant amount   | :               | 13 g   |      | 8 g                         |         |                     |  |
| Lubricant type   | :               | Mobil Polyrex EM                                   |      |                             |         |                     |  |
| 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   |                 |  |      |                             |         |                     |  |
| Date   | 04/06/2026      |  |      |                             | Page    | Revision            |  |
|  |                 |  |      |                             | 1 / 2   |                     |  |

# LOAD PERFORMANCE CURVE

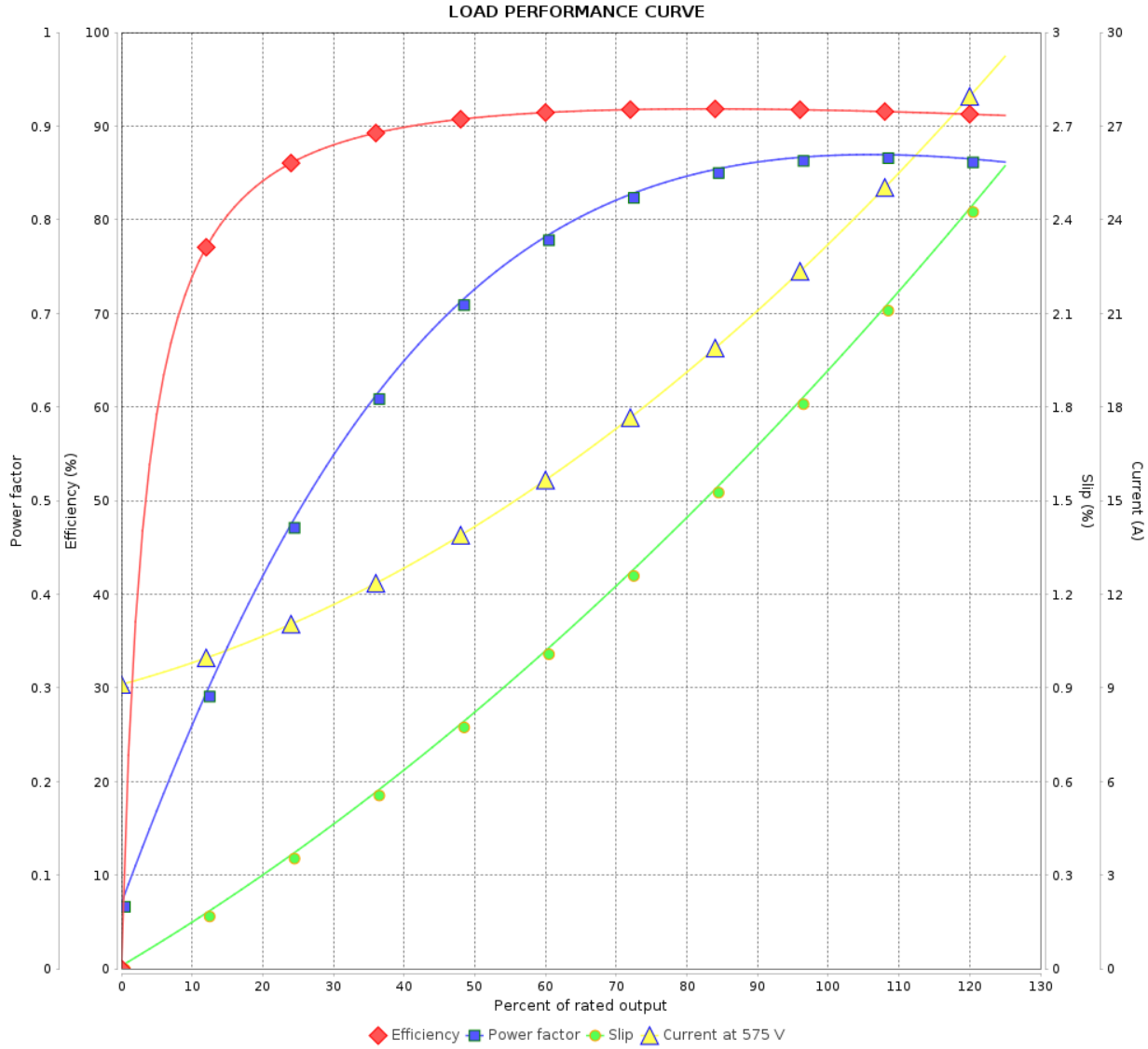
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Rolled Steel NEMA Premium  
Efficiency Three-Phase

Product code : 12706984



| Rev.         | Changes Summary | Performed     | Checked | Date     |
|--------------|-----------------|---------------|---------|----------|
|              |                 |               |         |          |
| Performed by |                 | Page<br>2 / 2 |         | Revision |
| Checked by   |                 |               |         |          |
| Date         |                 |               |         |          |