

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

|  |                           |  |              |  |                          |                |  |
|--|---------------------------|--|--------------|--|--------------------------|----------------|--|
| Customer :   |                           |  |              |  |                          |                |  |
| Product line   |                           | : Rolled Steel NEMA Premium Efficiency Three-Phase |              |  | Product code : 12845473  |                |  |
| Frame  | : 213/5TC                 |  |              | Locked rotor time  | : 27s (cold) 15s (hot)   |                |  |
| Output   | : 10 HP (7.5 kW)          |  |              | Temperature rise   | : 80 K                   |                |  |
| Frequency  | : 60 Hz                   |  |              | Duty cycle   | : Cont.(S1)              |                |  |
| Rated voltage  | : 575 V                   |  |              | Ambient temperature  | : -20°C to +40°C         |                |  |
| Poles  | : 4                       |  |              | Altitude   | : 1000 m.a.s.l.          |                |  |
| Rated current  | : 9.66 A                  |  |              | Protection degree  | : IP55                   |                |  |
|  | : 7.3x(Code H)            |  |              | Cooling method   | : IC411 - TEFC           |                |  |
| Rated speed  | : 1770 rpm                |  |              | Mounting   | : F-1                    |                |  |
| Rated torque   | : 4.10 kgfm               |  |              | Rotation <sup>1</sup>  | : Both (CW and CCW)      |                |  |
| Insulation class   | : F                       |  |              | Noise level <sup>2</sup>   | : 60.0 dB(A)             |                |  |
| Service factor   | : 1.15                    |  |              | Starting method  | : Direct On Line         |                |  |
| Moment of inertia (J)  | : 0.0451 kgm <sup>2</sup> |  |              | Approx. weight <sup>3</sup>  | : 63.5 kg                |                |  |
| Design   | : B                       |  |              |  |                          |                |  |
| Output   | 25%                       | 50%  | 75%          | 100%   | Foundation loads         |                |  |
| Efficiency (%)   | 0.000                     | 90.2   | 91.0         | 91.7   | Max. traction : 0 kgf    |                |  |
| Power Factor   | 0.00                      | 0.68   | 0.80         | 0.85   | Max. compression : 0 kgf |                |  |
| Losses at normative operating points (speed;torque), in percentage of rated output power   |                           |  |              |  |                          |                |  |
| P1 (0,9;1,0)   | P2 (0,5;1,0)              | P3 (0,25;1,0)                                      | P4 (0,9;0,5) | P5 (0,5;0,5)   | P6 (0,5;0,25)            | P7 (0,25;0,25) |  |
| 8.8  | 7.7                       | 7.3  | 4.2          | 3.0  | 2.0                      | 1.5            |  |
|  |                           | <u>Drive end</u>                                   |              | <u>Non drive end</u>   |                          |                |  |
| Bearing type   | :                         | 6208 ZZ  |              | 6206 ZZ  |                          |                |  |
| Sealing  | :                         | V'Ring   |              | Without Bearing Seal   |                          |                |  |
| 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                  | Date           |  |
| Performed by   |                           |  |              |  |                          |                |  |
| Checked by   |                           |  |              |  | Page                     | Revision       |  |
| Date   | 19/03/2026                |  |              |  | 1 / 2                    |                |  |

# LOAD PERFORMANCE CURVE

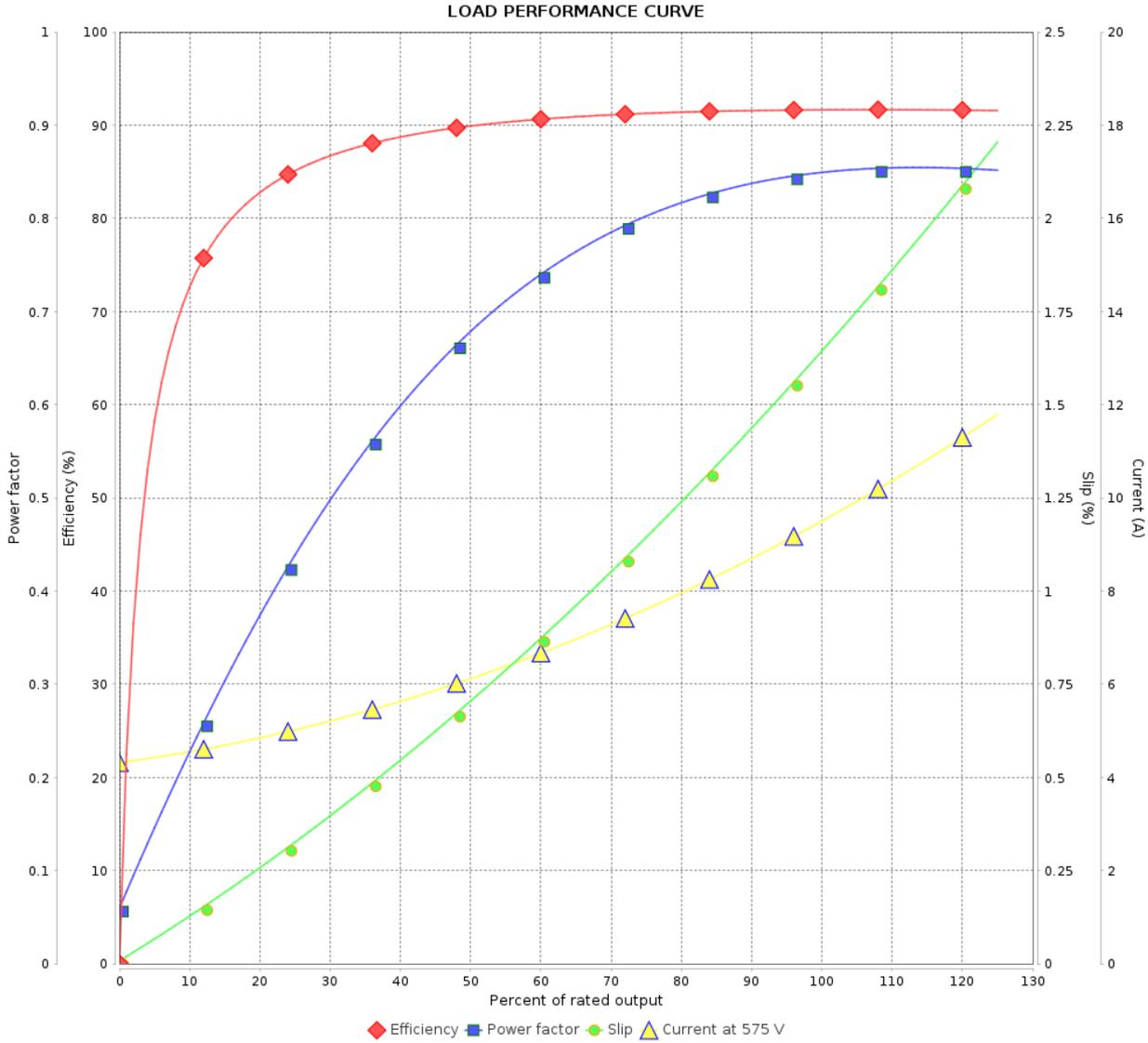
Three Phase Induction Motor - Squirrel Cage



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

Product line : Rolled Steel NEMA Premium  
Efficiency Three-Phase

Product code : 12845473



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