

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase Product code : 12845475

|                       |                           |                             |                        |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame                 | : 213/5TC                 | Locked rotor time           | : 32s (cold) 18s (hot) |
| Output                | : 10 HP (7.5 kW)          | Temperature rise            | : 80 K                 |
| Poles                 | : 2                       | 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         | : 9.49 A                  | Protection degree           | : IP55                 |
| L. R. Amperes         | : 71.2 A                  | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 7.5x(Code H)            | Mounting                    | : F-1                  |
| No load current       | : 3.44 A                  | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 3530 rpm                | Noise level <sup>2</sup>    | : 70.0 dB(A)           |
| Slip                  | : 1.94 %                  | Starting method             | : Direct On Line       |
| Rated torque          | : 2.06 kgfm               | Approx. weight <sup>3</sup> | : 63.8 kg              |
| Locked rotor torque   | : 260 %                   |                             |                        |
| Breakdown torque      | : 300 %                   |                             |                        |
| Insulation class      | : F                       |                             |                        |
| Service factor        | : 1.15                    |                             |                        |
| Moment of inertia (J) | : 0.0303 kgm <sup>2</sup> |                             |                        |
| Design                | : B                       |                             |                        |

|                |      |      |      |                  |           |
|----------------|------|------|------|------------------|-----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |           |
| Efficiency (%) | 89.5 | 90.2 | 90.2 | Max. traction    | : 82 kgf  |
| Power Factor   | 0.75 | 0.84 | 0.88 | Max. compression | : 146 kgf |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <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.

- (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 |                 | Page Revision<br>1 / 2 |         |      |
| Checked by   |                 |                        |         |      |
| Date         | 14/11/2025      |                        |         |      |

# LOAD PERFORMANCE CURVE

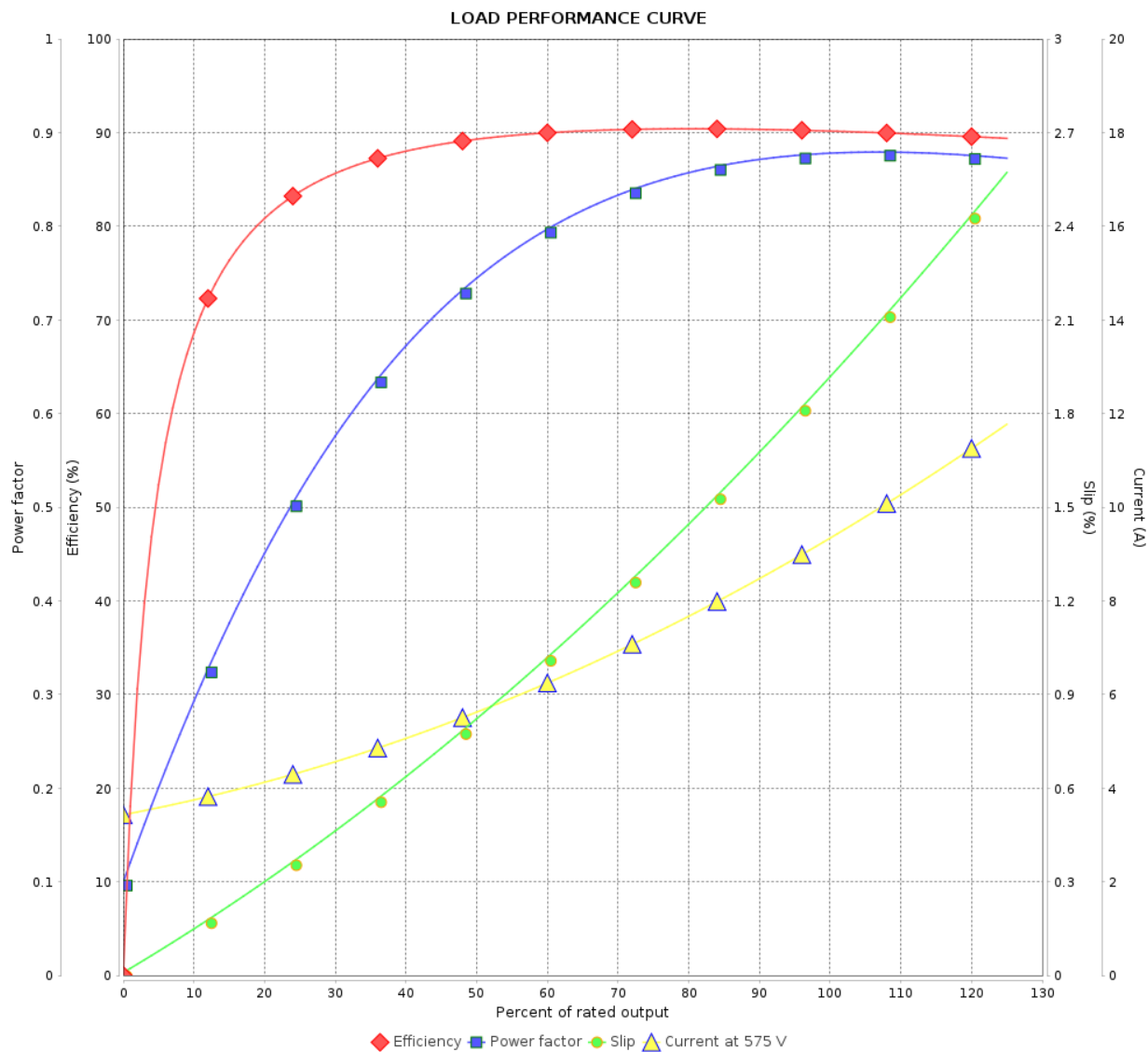
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium  
Efficiency Three-Phase

Product code : 12845475



Performance : 575 V 60 Hz 2P

Rated current : 9.49 A  
LRC : 7.5  
Rated torque : 2.06 kgfm  
Locked rotor torque : 260 %  
Breakdown torque : 300 %  
Rated speed : 3530 rpm

Moment of inertia (J) : 0.0303 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<br>2 / 2 | Revision |
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