

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase Product code : 19222762

|                       |                           |                             |                         |
|-----------------------|---------------------------|-----------------------------|-------------------------|
| Frame                 | : 143/5TC                 | Locked rotor time           | : 18s (cold) 10s (hot)  |
| Output                | : 3 HP (2.2 kW)           | Temperature rise            | : 80 K                  |
| Poles                 | : 2                       | Duty cycle                  | : Cont.(S1)             |
| Frequency             | : 60 Hz                   | Ambient temperature         | : -20°C to +40°C        |
| Rated voltage         | : 230/460 V               | Altitude                    | : 1000 m.a.s.l.         |
| Rated current         | : 7.02/3.51 A             | Protection degree           | : IP55                  |
| L. R. Amperes         | : 66.7/33.3 A             | Cooling method              | : IC411 - TEFC          |
| LRC                   | : 9.5x(Code K)            | Mounting                    | : F-1                   |
| No load current       | : 2.56/1.28 A             | Rotation <sup>1</sup>       | : Both (CW and CCW)     |
| Rated speed           | : 3500 rpm                | Noise level <sup>2</sup>    | : 68.0 dB(A)            |
| Slip                  | : 2.78 %                  | Vibration                   | : A                     |
| Rated torque          | : 0 kgfm                  | Starting method             | : Direct On Line        |
| Locked rotor torque   | : 300 %                   | Approx. weight <sup>3</sup> | : 21.8 kg               |
| Breakdown torque      | : 380 %                   | Painting plan               | : 207N (ISO 12944 - C2) |
| Insulation class      | : F                       | Color                       | : Munsell N 1 - Matte   |
| Service factor        | : 1.15                    | Design                      | : B                     |
| Moment of inertia (J) | : 0.0070 kgm <sup>2</sup> |                             |                         |

|                |      |      |      |                  |          |
|----------------|------|------|------|------------------|----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 84.0 | 86.5 | 86.5 | Max. traction    | : 62 kgf |
| Power Factor   | 0.78 | 0.87 | 0.91 | Max. compression | : 85 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 14.5         | 10.8         | 9.9           | 8.0          | 4.4          | 3.0           | 1.7            |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6205 ZZ          | 6203 ZZ              |
| Sealing              | : | V'Ring           | Without Bearing Seal |
| Lubrication interval | : | -                | -                    |
| Lubricant amount     | : | -                | -                    |
| Lubricant type       | : | Mobil Polyrex EM |                      |

### Notes

USABLE @208V 7.76A SF 1.00 SFA 7.76A

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         | 18/09/2026      |                        |         |      |

# LOAD PERFORMANCE CURVE

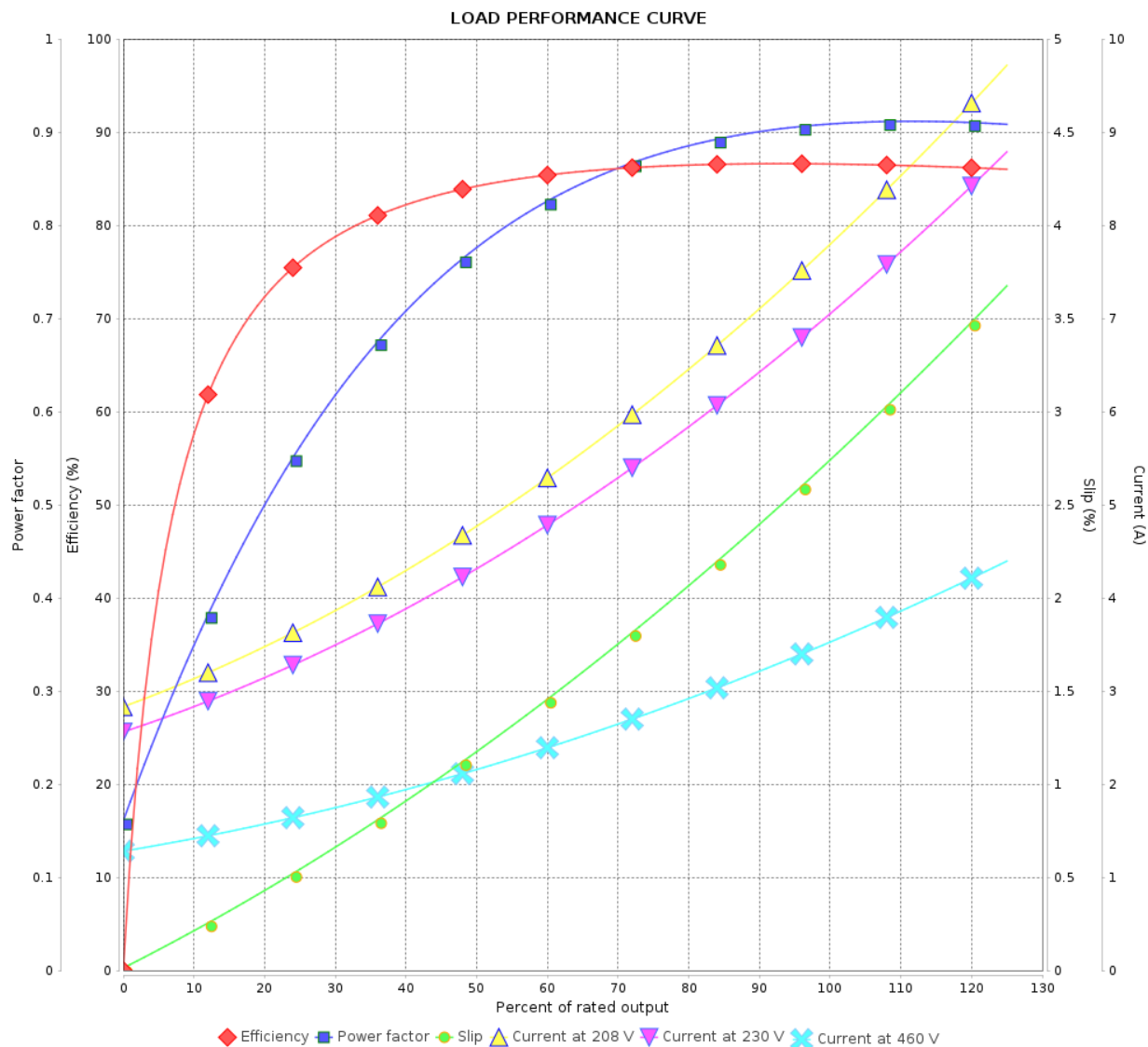
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium  
Efficiency Three-Phase

Product code : 19222762



Performance : 230/460 V 60 Hz 2P

Rated current : 7.02/3.51 A  
LRC : 9.5  
Rated torque : 0 kgfm  
Locked rotor torque : 300 %  
Breakdown torque : 380 %  
Rated speed : 3500 rpm

Moment of inertia (J) : 0.0070 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor :  
Temperature rise : 80 K  
Design : B

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