# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 |

| | | | |
|---|---|---|---|
| Frame | : 213/5TC | Locked rotor time | : 7 s (hot) 13 s (cold) |
| Output | : 7.5 HP (5.5 kW) | Duty cycle | : S1 |
| Poles | : 2 | Ambient temperature | : -20 °C to +40 °C |
| Frequency | : 60 Hz | Altitude | : 1000 m.a.s.l |
| Rated voltage | : 208-230 V | Protection degree | : IP55 |
| Rated current | : 30.5-28.8 A | Cooling method | : IC411 - TEFC |
| L. R. Amperes | : 207 A | Mounting | : B34R(D) |
| LRC | : 7.2 Code H | Rotation[1] | : Both |
| No load current | : 5.00 A | Noise level[2] | : 72 dB(A) |
| Rated speed | : 3500 rpm | Starting method | : Direct On Line |
| Slip | : 2.78 % | Approx. weight[3] | : 75.0 kg |
| Rated torque | : 1.56 kgfm | Design | : |
| Locked rotor torque | : 280 % | | |
| Pull up torque | : 230 % | | |
| Breakdown torque | : 275 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 0.0234 kgm² | | |

| Output | Start | 50% | 75% | 100% |
|---|---|---|---|---|
| Efficiency (%) | - | 78.5 | 83.0 | 84.0 |
| Power Factor | 0.89 | 0.96 | 0.98 | 0.99 |

| | |
|---|---|
| Load type | : - |
| Load torque | : - |
| Load inertia (J=GD²/4) | : - |

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6308-ZZ | 6206-ZZ |
| Lubrication interval | - | - |
| Lubricant amount | - | - |
| Lubricant type | POLYUREA BASED GREASE | |

| | |
|---|---|
| Foundation loads | |
| Max. traction | : - |
| Max. compression | : - |

Notes:

Standards

| | | | |
|---|---|---|---|
| Specification | : MG1 - Part 10 | Vibration | : |
| Test | : MG1 - Part 12 | Tolerance | : MG1 - Part 12 |
| Noise | : MG1 - Part 9 | | |

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 +0dB(A).
(3) Approximate weight, subject to be changed 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 1-12.

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | 2026/11/12 |

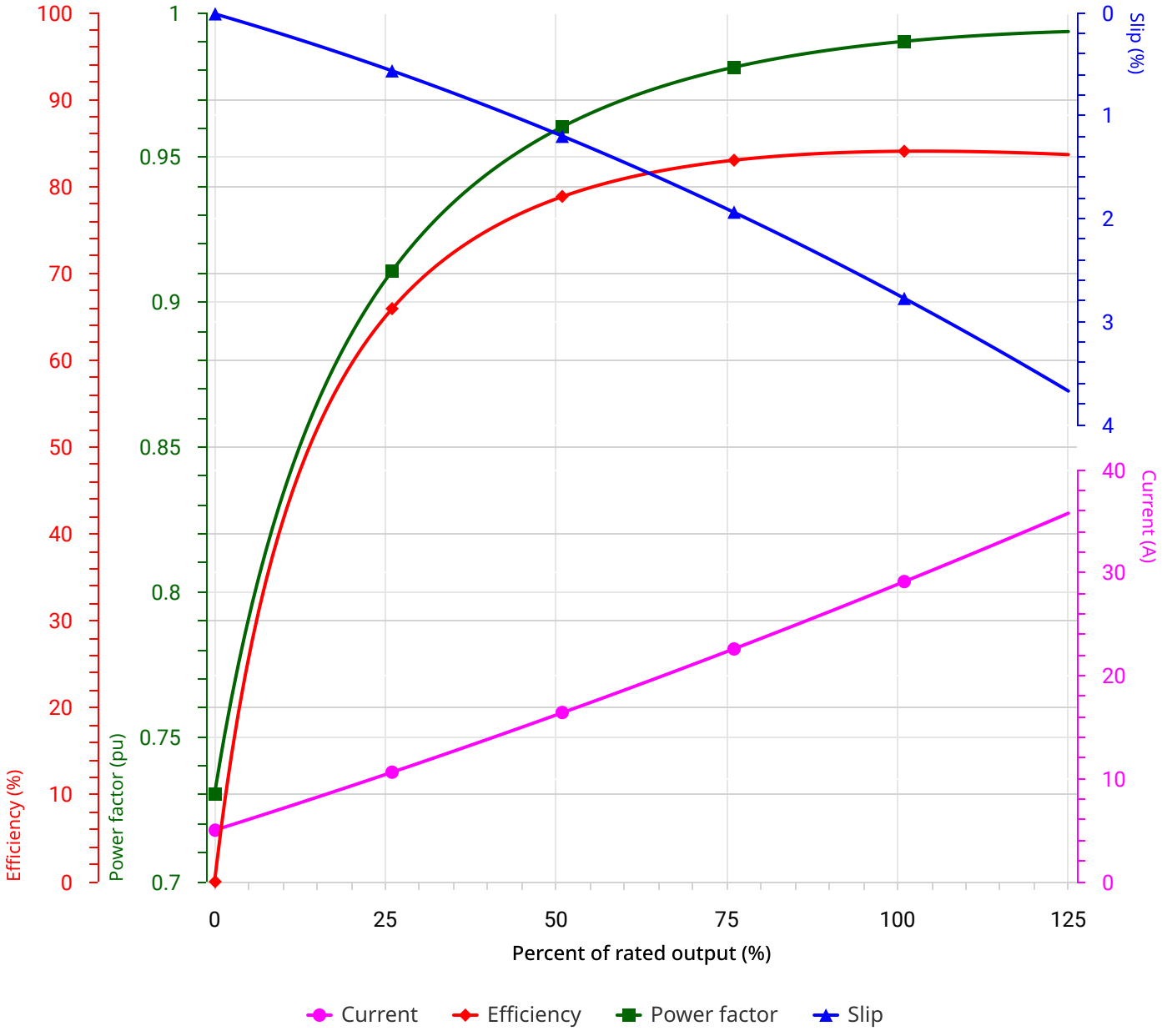
| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 2026/11/12 | | 1/2 | 0 |

*This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.*

## LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 |




| | |
|---|---|
| Performance | : 7.5 HP (5.5 kW) 208/230V 60Hz 2P 213/5TC |

| | | | |
|---|---|---|---|
| Rated current | : 30.5/28.8 A | Moment of inertia (J) | : 0.0234 kgm² |
| LRC | : 7.2 Code H | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.56 kgfm | Insulation class | : F |
| Locked rotor torque | : 280 % | Service factor | : 1.15 |
| Breakdown torque | : 275 % | Temperature rise | : 80 K |
| Rated speed | : 3500 rpm | | |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | 2026/11/12 |

| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 2026/11/12 | | 2/2 | 0 |

*This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.*