# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

| | |
|---|---|
| Customer | : |

| | |
|---|---|
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 11856675 |

| | | | |
|---|---|---|---|
| Frame | : 143/5T | Locked rotor time | : 14 s (hot) 25 s (cold) |
| Output | : 3 HP (2.2 kW) | Temperature rise[4] | : 80 K |
| Poles | : 2 | Duty cycle | : S1 |
| Frequency | : 60 Hz | Ambient temperature | : -20 °C to +40 °C |
| Rated voltage | : 575 V | Altitude | : 1000 m.a.s.l |
| Rated current | : 2.97 A | Protection degree | : IP55 |
| L. R. Amperes | : 24.0 A | Cooling method | : IC411 - TEFC |
| LRC | : 8.1 Code J | Mounting | : B34R(D) |
| No load current | : 1.04 A | Rotation[1] | : Both |
| Rated speed | : 3460 rpm | Noise level[2] | : 68 dB(A) |
| Slip | : 3.89 % | Starting method | : Direct On Line |
| Rated torque | : 0.629 kgfm | Approx. weight[3] | : 23.5 kg |
| Locked rotor torque | : 330 % | Design | : B |
| Pull up torque | : 280 % | | |
| Breakdown torque | : 360 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.0026 kgm² | | |

| Output | Start | 50% | 75% | 100% |
|---|---|---|---|---|
| Efficiency (%) | - | 85.5 | 86.5 | 86.5 |
| Power Factor | 0.70 | 0.70 | 0.81 | 0.86 |

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

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6205-ZZ | 6204-ZZ |
| Lubrication interval | - | - |
| Lubricant amount | - | - |
| Lubricant type | POLYUREA BASED GREASE | |

| | |
|---|---|
| Foundation loads | |
| Max. traction | : 52 kgf |
| Max. compression | : 76 kgf |

Notes:

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) |
|---|---|---|---|---|---|---|
| 14.83 | 12.27 | 11.71 | 6.75 | 4.34 | 2.59 | 1.72 |

Standards

| | | | |
|---|---|---|---|
| Specification | : MG1 - Part 10 | Vibration | : MG1 - Part 7 |
| 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 |
|---|---|---|---|---|
| | | | | |

| | |
|---|---|
| Performed by | |
| Checked by | |
| Date | 2026/10/16 |



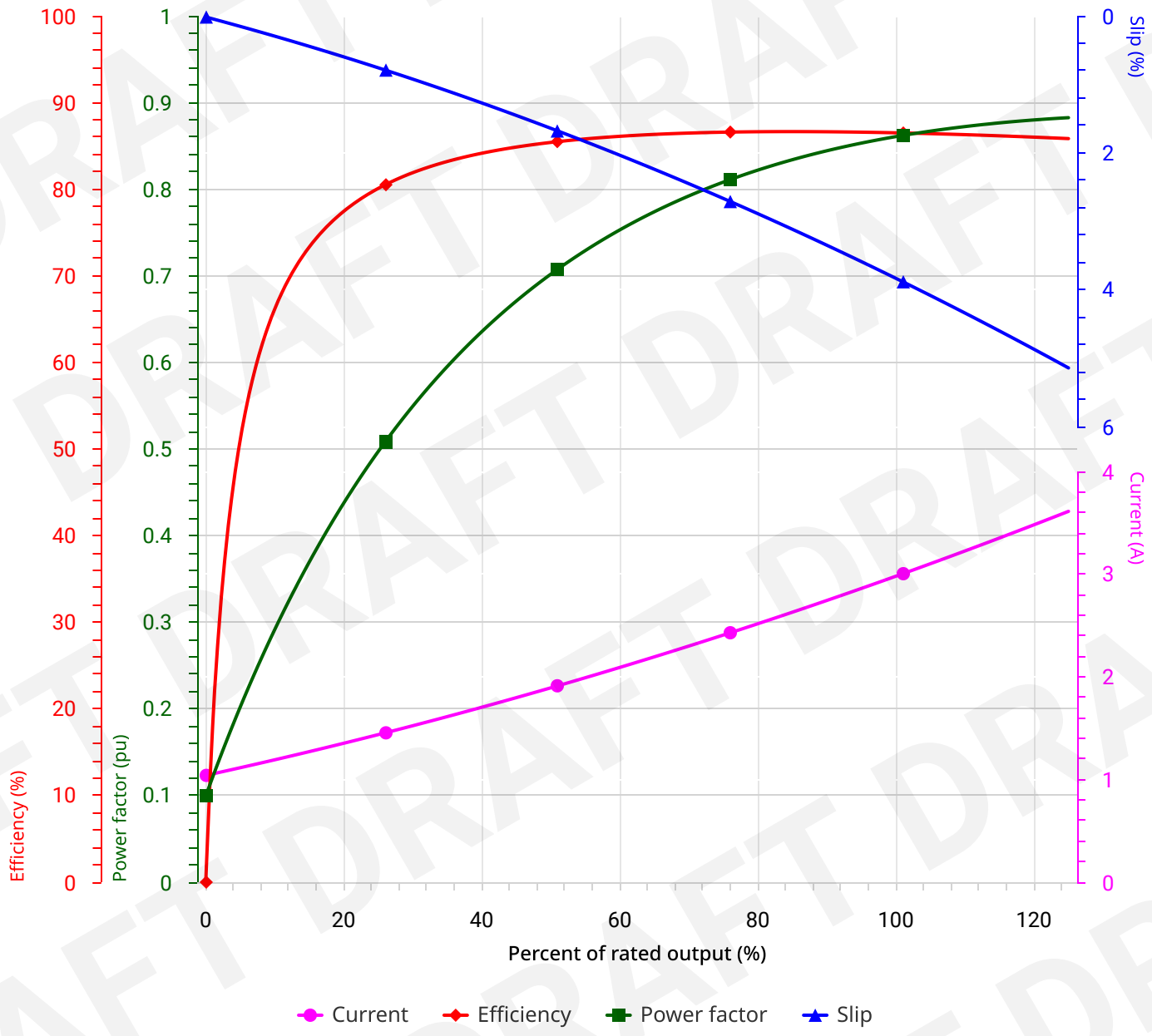
*This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.*

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 11856675 |




| | |
|---|---|
| Performance | : 3 HP (2.2 kW) 575V 60Hz 2P 143/5T |

| | | | |
|---|---|---|---|
| Rated current | : 2.97 A | Moment of inertia (J) | : 0.0026 kgm² |
| LRC | : 8.1 Code J | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.629 kgfm | Insulation class | : F |
| Locked rotor torque | : 330 % | Service factor | : 1.25 |
| Breakdown torque | : 360 % | Temperature rise | : 80 K |
| Rated speed | : 3460 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | |

| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 2026/10/16 | | 2/2 | 0 |

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