# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

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

| | |
|---|---|
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 11164525 |

| | | | |
|---|---|---|---|
| Frame | : 404/5T | Locked rotor time | : 13 s (hot) 23 s (cold) |
| Output | : 100 HP (75 kW) | Temperature rise[4] | : 80 K |
| Poles | : 4 | 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 | : 90.4 A | Protection degree | : IP55 |
| L. R. Amperes | : 660 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.3 Code H | Mounting | : B3R(D) |
| No load current | : 30.4 A | Rotation[1] | : Both |
| Rated speed | : 1780 rpm | Noise level[2] | : 68 dB(A) |
| Slip | : 1.11 % | Starting method | : Direct On Line |
| Rated torque | : 40.8 kgfm | Approx. weight[3] | : 517 kg |
| Locked rotor torque | : 240 % | Design | : B |
| Pull up torque | : 185 % | | |
| Breakdown torque | : 260 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 1.26 kgm² | | |

| Output | Start | 50% | 75% | 100% |
|---|---|---|---|---|
| Efficiency (%) | - | 95.0 | 95.0 | 95.4 |
| Power Factor | 0.43 | 0.77 | 0.84 | 0.87 |

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

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | NU-316-C3 | 6314-C3 |
| Lubrication interval | 7000 h | 12000 h |
| Lubrication amount | 34 g | 27 g |
| Lubricant type | MOBIL POLYREX EM | |

| | |
|---|---|
| Foundation loads | |
| Max. traction | : 771 kgf |
| Max. compression | : 1288 kgf |

Notes:
The vibration and noise level informed are valid when motor is operating with roller bearings respecting their minimum radial load.
Thus, WEG reserves the right to test the motor with ball bearings.

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) |
|---|---|---|---|---|---|---|
| 4.67 | 3.85 | 3.66 | 2.20 | 1.47 | 0.92 | 0.60 |

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 |
|---|---|---|---|---|
| | | | | 2026/11/10 |

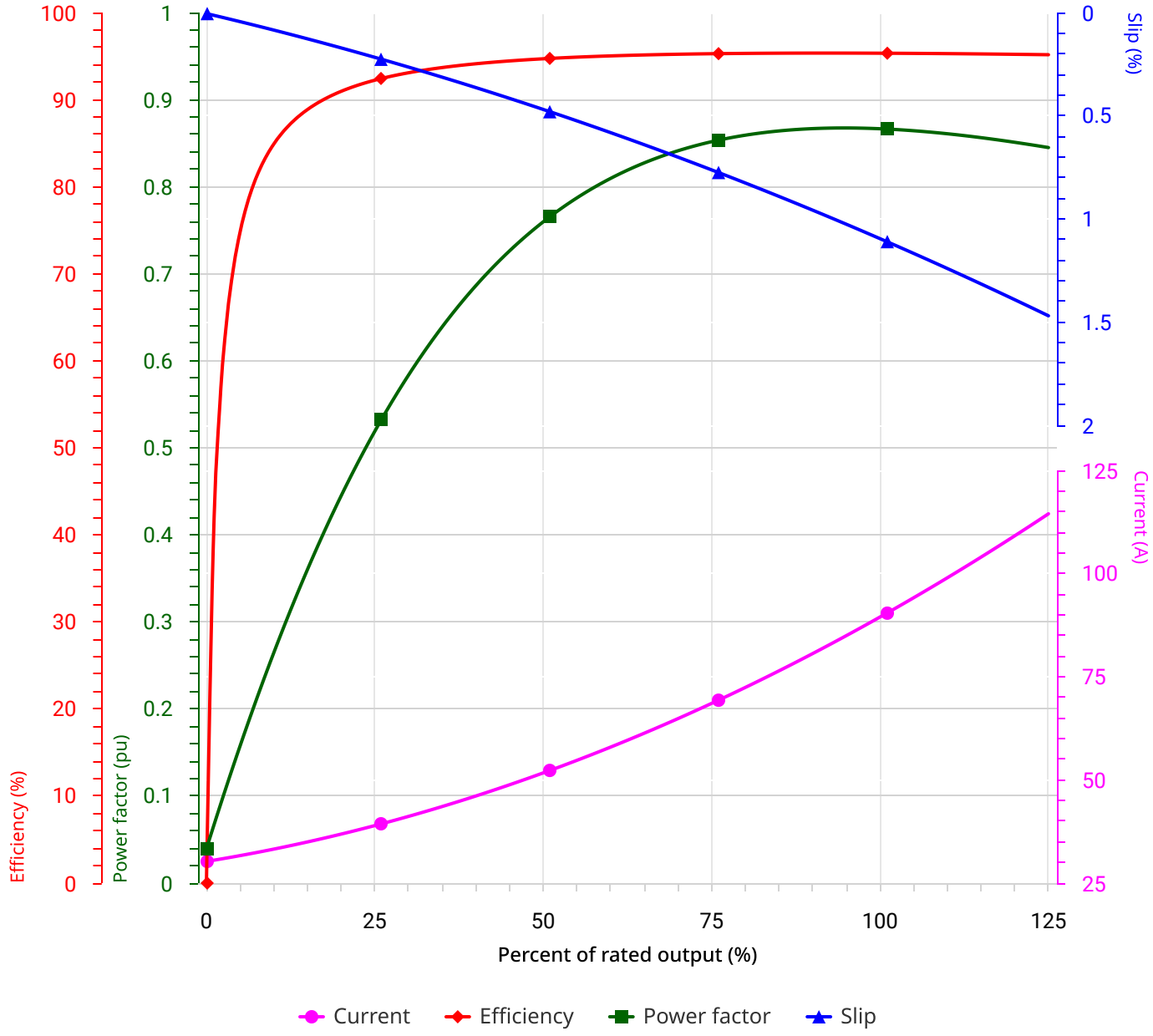
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 11164525 |




| | |
|---|---|
| Performance | : 100 HP (75 kW) 575V 60Hz 4P 404/5T |

| | | | |
|---|---|---|---|
| Rated current | : 90.4 A | Moment of inertia (J) | : 1.26 kgm² |
| LRC | : 7.3 Code H | Duty cycle | : Cont.(S1) |
| Rated torque | : 40.8 kgfm | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.25 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 1780 rpm | Design | : B |

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