# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

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

| | |
|---|---|
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 12468851 |

| | |
|---|---|
| Frame | : 404/5TS |
| Output | : 100 HP (75 kW) |
| Poles | : 4 |
| Frequency | : 60 Hz |
| Rated voltage | : 575 V |
| Rated current | : 90.4 A |
| L. R. Amperes | : 660 A |
| LRC | : 7.3 Code H |
| No load current | : 30.4 A |
| Rated speed | : 1780 rpm |
| Slip | : 1.11 % |
| Rated torque | : 40.8 kgfm |
| Locked rotor torque | : 240 % |
| Pull up torque | : 185 % |
| Breakdown torque | : 260 % |
| Insulation class | : F |
| Service factor | : 1.25 |
| Moment of inertia (J) | : 1.26 kgm² |

| | |
|---|---|
| Locked rotor time | : 13 s (hot) 23 s (cold) |
| Temperature rise[4] | : 80 K |
| Duty cycle | : S1 |
| Ambient temperature | : -20 °C to +40 °C |
| Altitude | : 1000 m.a.s.l |
| Protection degree | : IP55 |
| Cooling method | : IC411 - TEFC |
| Mounting | : B3R(D) |
| Rotation[1] | : Both |
| Noise level[2] | : 68 dB(A) |
| Starting method | : Direct On Line |
| Approx. weight[3] | : 517 kg |
| Design | : B |

| 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 | 6314-C3 | 6314-C3 |
| Lubrication interval | 12000 h | 12000 h |
| Lubricant amount | 27 g | 27 g |
| Lubricant type | MOBIL POLYREX EM | |

| | |
|---|---|
| Foundation loads | |
| Max. traction | : 771 kgf |
| Max. compression | : 1288 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) |
|---|---|---|---|---|---|---|
| 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 |
|---|---|---|---|---|
| | | | | 2026/11/21 |

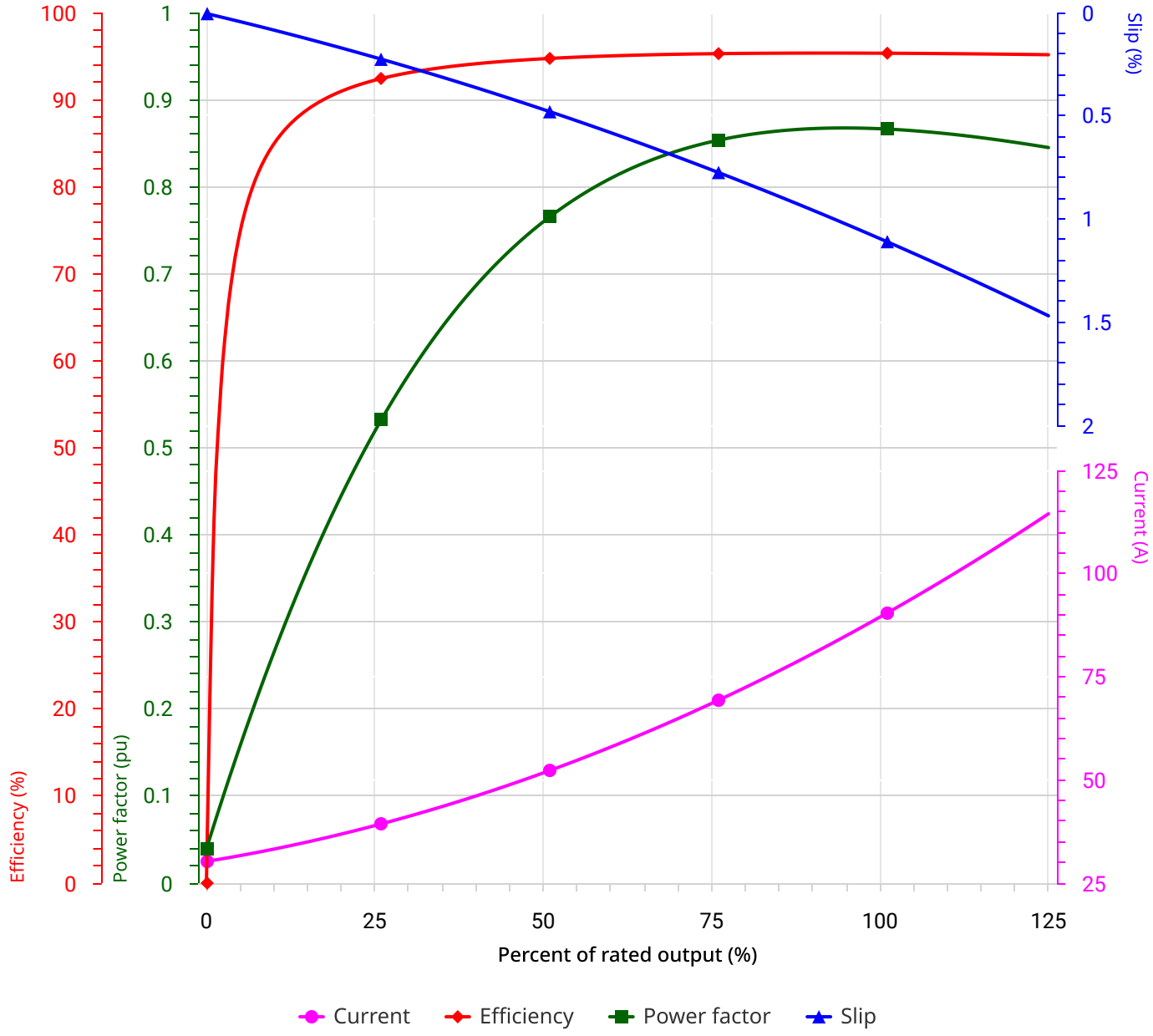
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 12468851 |




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

| | | | |
|---|---|---|---|
| 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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