# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - Nema Premium Efficiency
Product code : 18070018

| | |
|---|---|
| Frame | : 444/5TSC |
| Output | : 125 HP (90 kW) |
| Poles | : 2 |
| Frequency | : 60 Hz |
| Rated voltage | : 575 V |
| Rated current | : 109 A |
| L. R. Amperes | : 765 A |
| LRC | : 7.0 Code G |
| No load current | : 32.0 A |
| Rated speed | : 3573 rpm |
| Slip | : 0.75 % |
| Rated torque | : 25.4 kgfm |
| Locked rotor torque | : 200 % |
| Pull up torque | : 140 % |
| Breakdown torque | : 270 % |
| Insulation class | : F |
| Service factor | : 1.15 |
| Moment of inertia (J) | : 1.41 kgm² |

| | |
|---|---|
| Locked rotor time | : 29 s (hot) 52 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 | : B34R(D) |
| Rotation[1] | : Both |
| Noise level[2] | : 81 dB(A) |
| Starting method | : Direct On Line |
| Approx. weight[3] | : 741 kg |
| Design | : B |

| Output | Start | 50% | 75% | 100% |
|---|---|---|---|---|
| Efficiency (%) | - | 93.6 | 94.5 | 95.0 |
| Power Factor | 0.31 | 0.78 | 0.85 | 0.87 |

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

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6314-C3 | 6314-C3 |
| Lubrication interval | 4000 h | 4000 h |
| Lubricant amount | 27 g | 27 g |
| Lubricant type | MOBIL POLYREX EM | |

Foundation loads
Max. traction : 221 kgf
Max. compression : 962 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) |
|---|---|---|---|---|---|---|
| 4.26 | 2.89 | 2.43 | 2.74 | 1.41 | 1.06 | 0.57 |

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 |
|---|---|---|---|---|
| | | | | 2026/11/13 |

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| Performed by | |
| Checked by | |
| Date | 2026/11/13 |

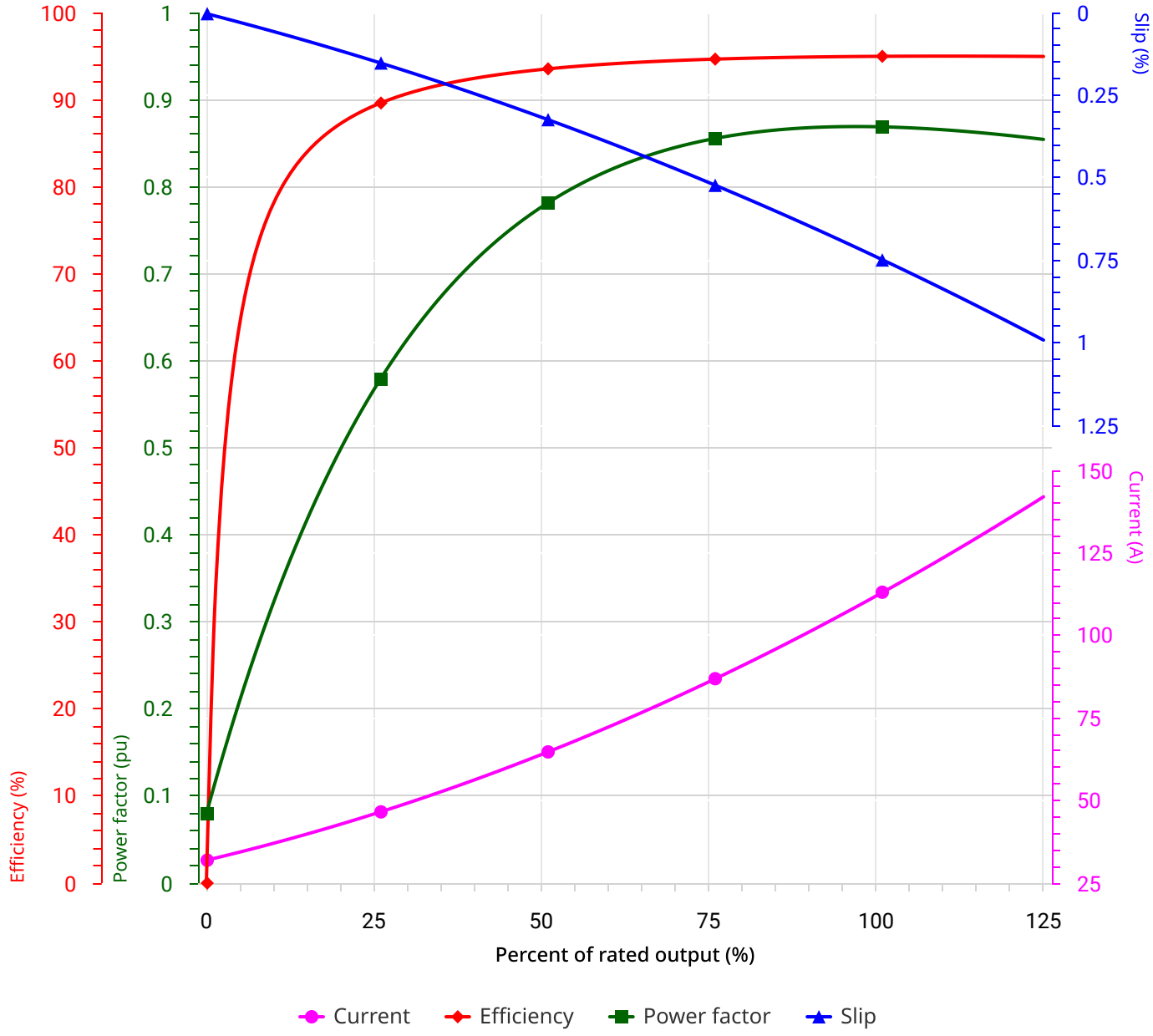


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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 18070018 |




| | | | |
|---|---|---|---|
| Performance | : 125 HP (90 kW) 575V 60Hz 2P 444/5TSC | | |
| Rated current | : 109 A | Moment of inertia (J) | : 1.41 kgm² |
| LRC | : 7.0 Code G | Duty cycle | : Cont.(S1) |
| Rated torque | : 25.4 kgfm | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.15 |
| Breakdown torque | : 270 % | Temperature rise | : 80 K |
| Rated speed | : 3573 rpm | Design | : B |

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| | | | | 2026/11/13 |

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