# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 Jet Pump Motors JM - Nema Premium Efficiency |

| | | | |
|---|---|---|---|
| Frame | : 324/6JM | Locked rotor time | : 20 s (hot) 36 s (cold) |
| Output | : 40 HP (30 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 | : 37.7 A | Protection degree | : IP55 |
| L. R. Amperes | : 230 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.1 Code G | Mounting | : B34R(D) |
| No load current | : 13.8 A | Rotation[1] | : Both |
| Rated speed | : 1775 rpm | Noise level[2] | : 66 dB(A) |
| Slip | : 1.39 % | Starting method | : Direct On Line |
| Rated torque | : 16.4 kgfm | Approx. weight[3] | : 223 kg |
| Locked rotor torque | : 230 % | Design | : B |
| Pull up torque | : 170 % | | |
| Breakdown torque | : 240 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.3861 kgm² | | |

| Output | Start | 50% | 75% | 100% |
|---|---|---|---|---|
| Efficiency (%) | - | 93.6 | 94.1 | 94.1 |
| Power Factor | 0.41 | 0.72 | 0.80 | 0.85 |

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6312-C3 | 6212-C3 |
| Lubrication interval | 20000 h | 20000 h |
| Lubricant amount | 21 g | 13 g |
| Lubricant type | MOBIL POLYREX EM | |

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

Foundation loads
Max. traction : 377 kgf
Max. compression : 600 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) |
|---|---|---|---|---|---|---|
| 6.24 | 5.43 | 4.92 | 2.79 | 2.02 | 1.26 | 0.90 |

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 |
|---|---|---|---|---|
| | | | | 2026/11/12 |

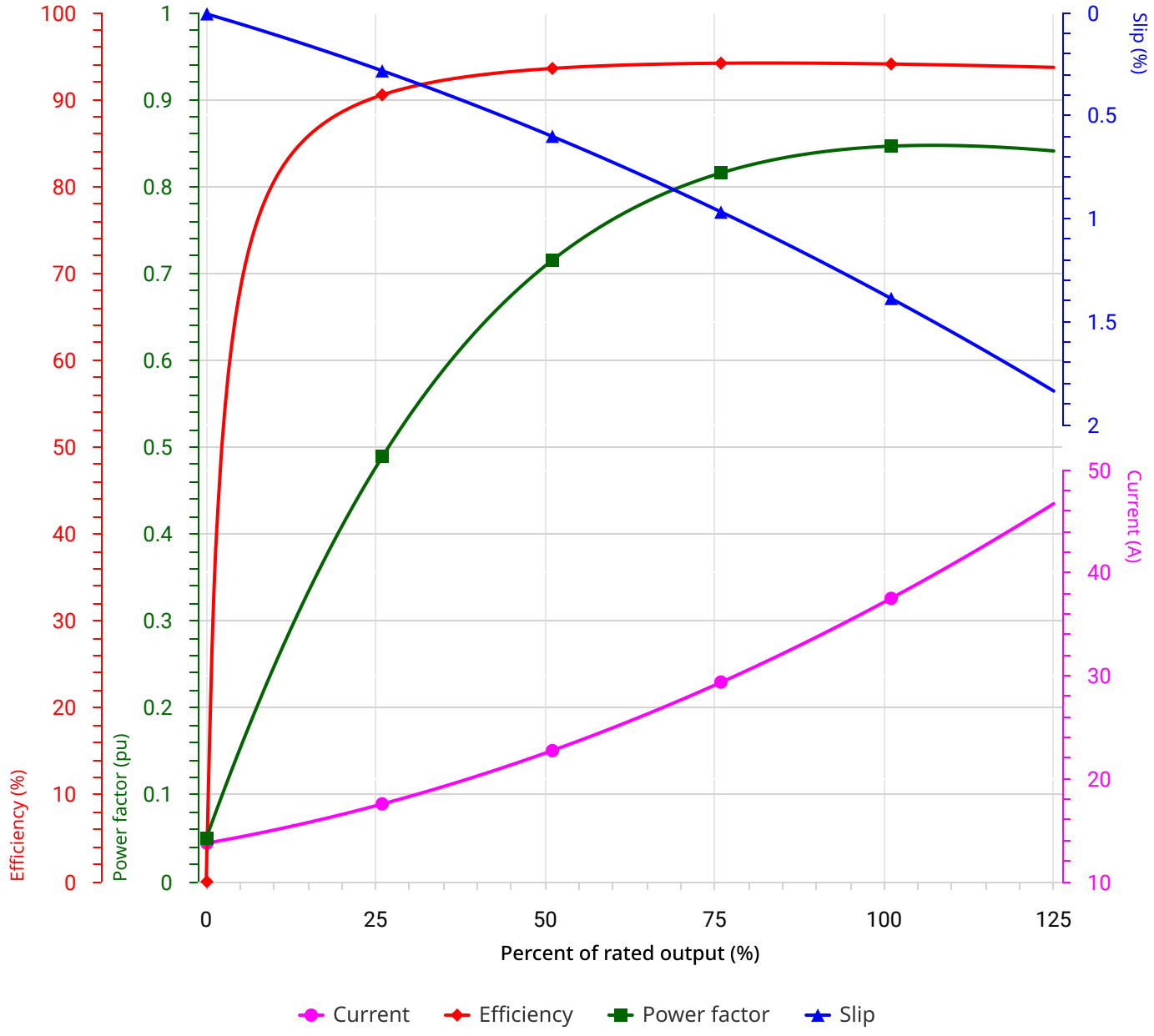
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 Jet Pump Motors JM - Nema Premium Efficiency |




| | |
|---|---|
| Performance | : 40 HP (30 kW) 575V 60Hz 4P 324/6JM |

| | | | |
|---|---|---|---|
| Rated current | : 37.7 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 6.1 Code G | Duty cycle | : Cont.(S1) |
| Rated torque | : 16.4 kgfm | Insulation class | : F |
| Locked rotor torque | : 230 % | Service factor | : 1.25 |
| Breakdown torque | : 240 % | Temperature rise | : 80 K |
| Rated speed | : 1775 rpm | Design | : B |

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