**DATA SHEET**

Three Phase Induction Motor - Squirrel Cage

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

| | |
|---|---|
| Product line | : Explosion Proof Motors - NEMA Premium Efficiency (Derating) |
| Product code | : 11439852 |

| | | | |
|---|---|---|---|
| Frame | : 404/5T | Cooling method | : TEFC-XP |
| Insulation class | : F | Mounting | : B3R(D) |
| Duty cycle | : S1 | Rotation | : Both |
| Ambient temperature | : -20 °C to +40 °C | Starting method | : Direct On Line |
| Altitude | : 1000 m | Approx. weight | : 570 kg |
| Protection degree | : IP56 | Moment of inertia (J) | : 1.69 kgm² |
| Design | : B | | |

| Output | | 75 HP (55 kW) | 60 HP (45 kW) | 60 HP (45 kW) | 60 HP (45 kW) |
|---|---|---|---|---|---|
| Poles | | 6 | 6 | 6 | 6 |
| Frequency | | 60 Hz | 50 Hz | 50 Hz | 50 Hz |
| Rated voltage | | 230/460 V | 380 V | 400 V | 415 V |
| Rated current | | 174/87.0 A | 86.6 A | 84.3 A | 81.8 A |
| L. R. Amperes | | 1340/670 A | 624 A | 666 A | 687 A |
| LRC | | 7.7 Code J | 7.2 Code H | 7.9 Code J | 8.4 Code K |
| No load current | | 62.5/31.3 A | 31.0 A | 33.6 A | 36.0 A |
| Rated speed | | 1185 rpm | 985 rpm | 987 rpm | 988 rpm |
| Slip | | 1.25 % | 1.50 % | 1.30 % | 1.20 % |
| Rated torque | | 45.9 kgfm | 44.2 kgfm | 44.1 kgfm | 44.1 kgfm |
| Locked rotor torque | | 250 % | 230 % | 260 % | 280 % |
| Breakdown torque | | 260 % | 250 % | 280 % | 300 % |
| Service factor | | 1.15 | 1.00 | 1.00 | 1.00 |
| Temperature rise | | 80 K | 80 K | 80 K | 80 K |
| Noise level | | 65 dB(A) | 61 dB(A) | 61 dB(A) | 61 dB(A) |
| Locked rotor time | | 15 s (hot) 27 s (cold) | 15 s (hot) 27 s (cold) | 15 s (hot) 27 s (cold) | 15 s (hot) 27 s (cold) |
| Efficiency (%) | 50% | 94.1 | 94.0 | 93.6 | 93.6 |
| | 75% | 95.0 | 94.0 | 94.5 | 94.5 |
| | 100% | 94.5 | 94.0 | 94.0 | 94.5 |
| Power Factor | Start | 0.00 | 0.00 | 0.00 | 0.00 |
| | 50% | 0.72 | 0.72 | 0.68 | 0.64 |
| | 75% | 0.81 | 0.81 | 0.78 | 0.76 |
| | 100% | 0.84 | 0.84 | 0.82 | 0.81 |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | |
| P1 (0,9;1,0) | | 0.00 | 0.00 | 0.00 | 0.00 |
| P2 (0,5;1,0) | | 0.00 | 0.00 | 0.00 | 0.00 |
| P3 (0,25;1,0) | | 0.00 | 0.00 | 0.00 | 0.00 |
| P4 (0,9;0,5) | | 0.00 | 0.00 | 0.00 | 0.00 |
| P5 (0,5;0,5) | | 0.00 | 0.00 | 0.00 | 0.00 |
| P6 (0,5;0,25) | | 0.00 | 0.00 | 0.00 | 0.00 |
| P7 (0,25;0,25) | | 0.00 | 0.00 | 0.00 | 0.00 |

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6217-C3 | 6314-C3 |
| Lubrication interval | 13507 h | 14267 h |
| Lubricant amount | 21 g | 27 g |
| Lubricant type | MOBIL POLYREX EM | |

Foundation loads
Max. traction : 999 kgf
Max. compression : 1569 kgf

Notes:

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | 2026/11/14 |

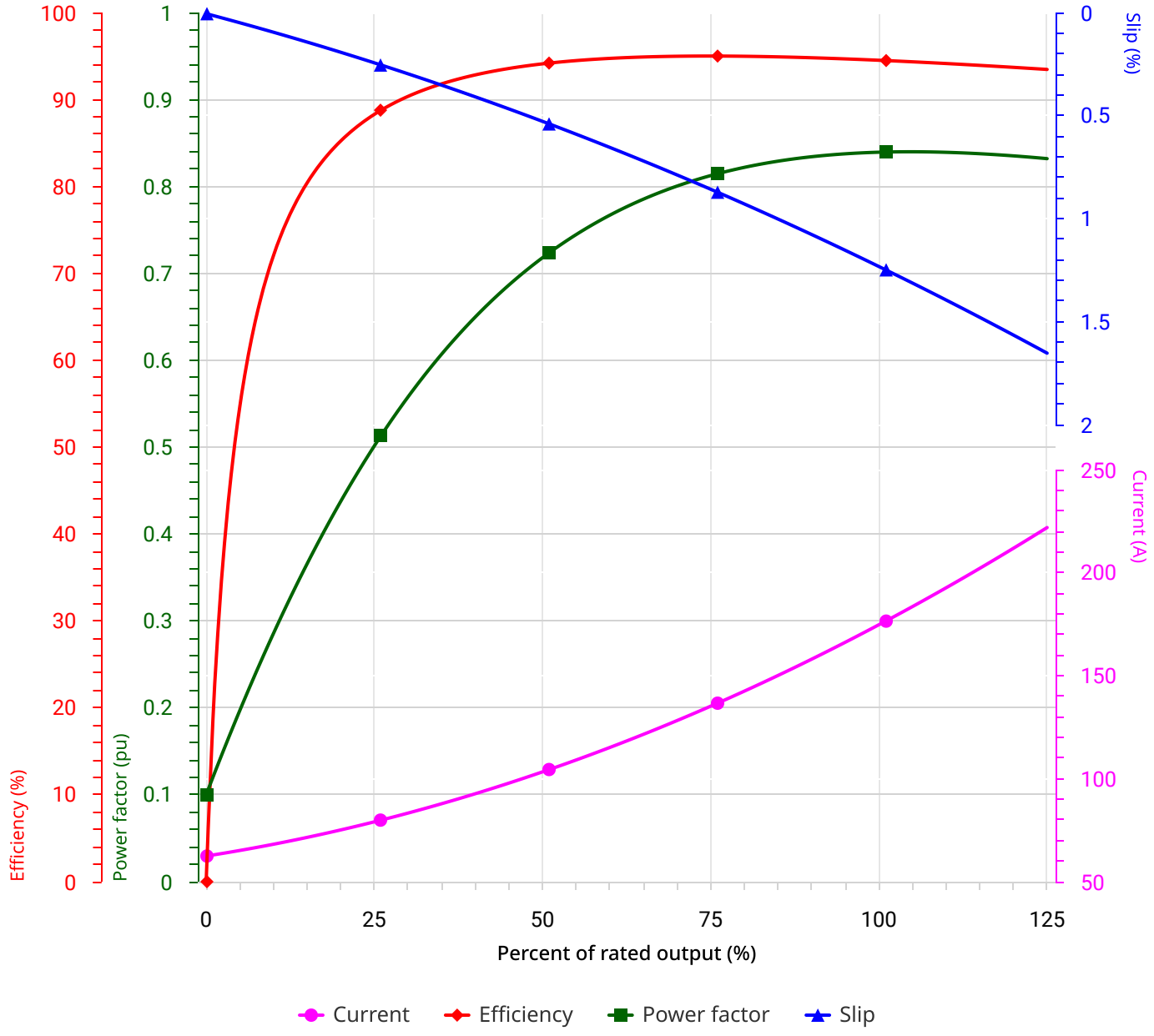
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : Explosion Proof Motors - NEMA Premium Efficiency (Derating) |
| Product code | : 11439852 |




| | |
|---|---|
| Performance | : 75 HP (55 kW) 230/460V 60Hz 6P 404/5T |

| | | | |
|---|---|---|---|
| Rated current | : 174/87.0 A | Moment of inertia (J) | : 1.69 kgm² |
| LRC | : 7.7 Code J | Duty cycle | : Cont.(S1) |
| Rated torque | : 45.9 kgfm | Insulation class | : F |
| Locked rotor torque | : 250 % | Service factor | : 1.15 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 1185 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | 2026/11/14 |

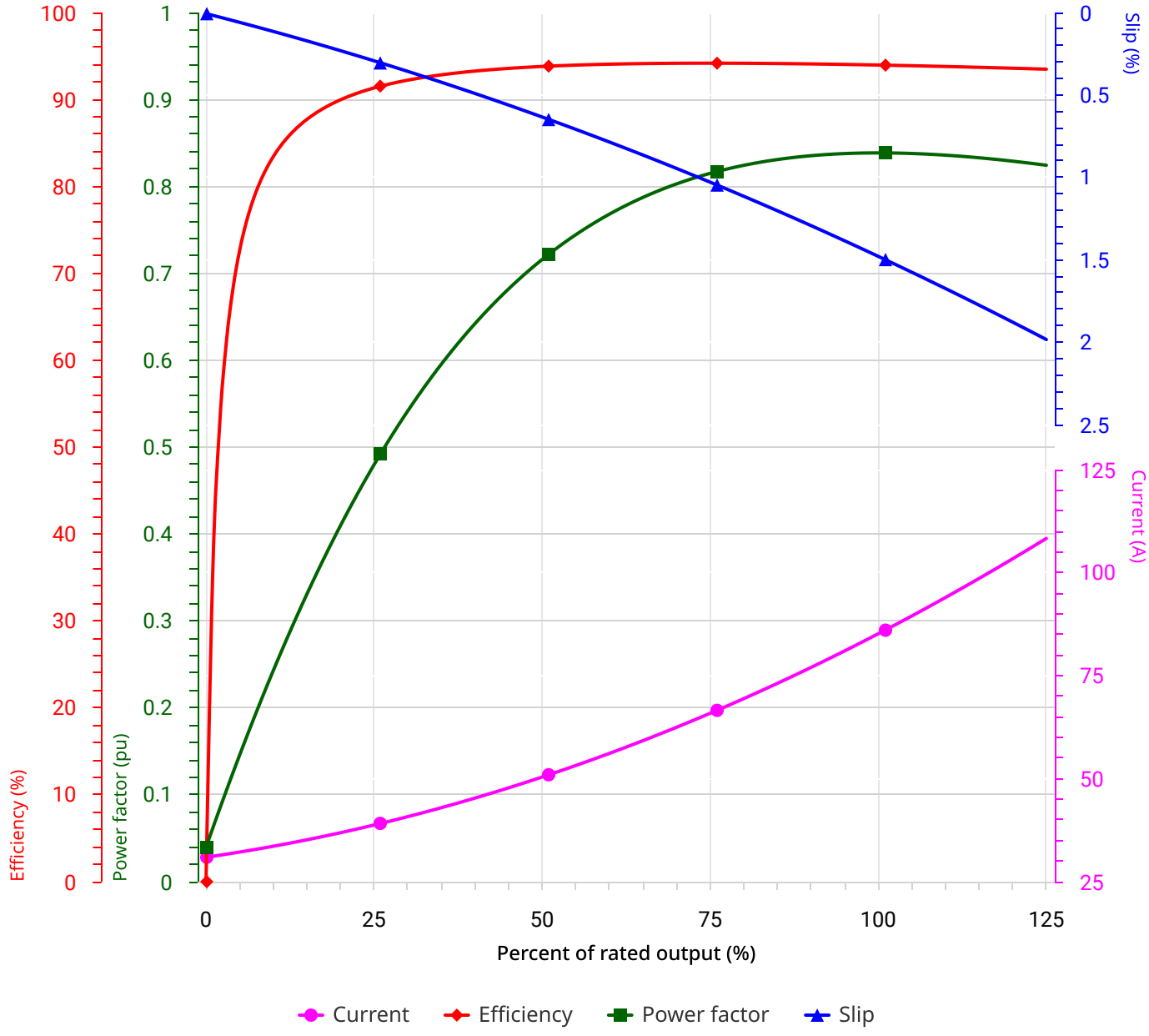
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Three Phase Induction Motor - Squirrel Cage

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|---|---|
| Customer | : |
| Product line | : Explosion Proof Motors - NEMA Premium Efficiency (Derating) |
| Product code | : 11439852 |




| | |
|---|---|
| Performance | : 60 HP (45 kW) 380V 50Hz 6P 404/5T |

| | | | |
|---|---|---|---|
| Rated current | : 86.6 A | Moment of inertia (J) | : 1.69 kgm² |
| LRC | : 7.2 Code H | Duty cycle | : Cont.(S1) |
| Rated torque | : 44.2 kgfm | Insulation class | : F |
| Locked rotor torque | : 230 % | Service factor | : 1.00 |
| Breakdown torque | : 250 % | Temperature rise | : 80 K |
| Rated speed | : 985 rpm | Design | : A |

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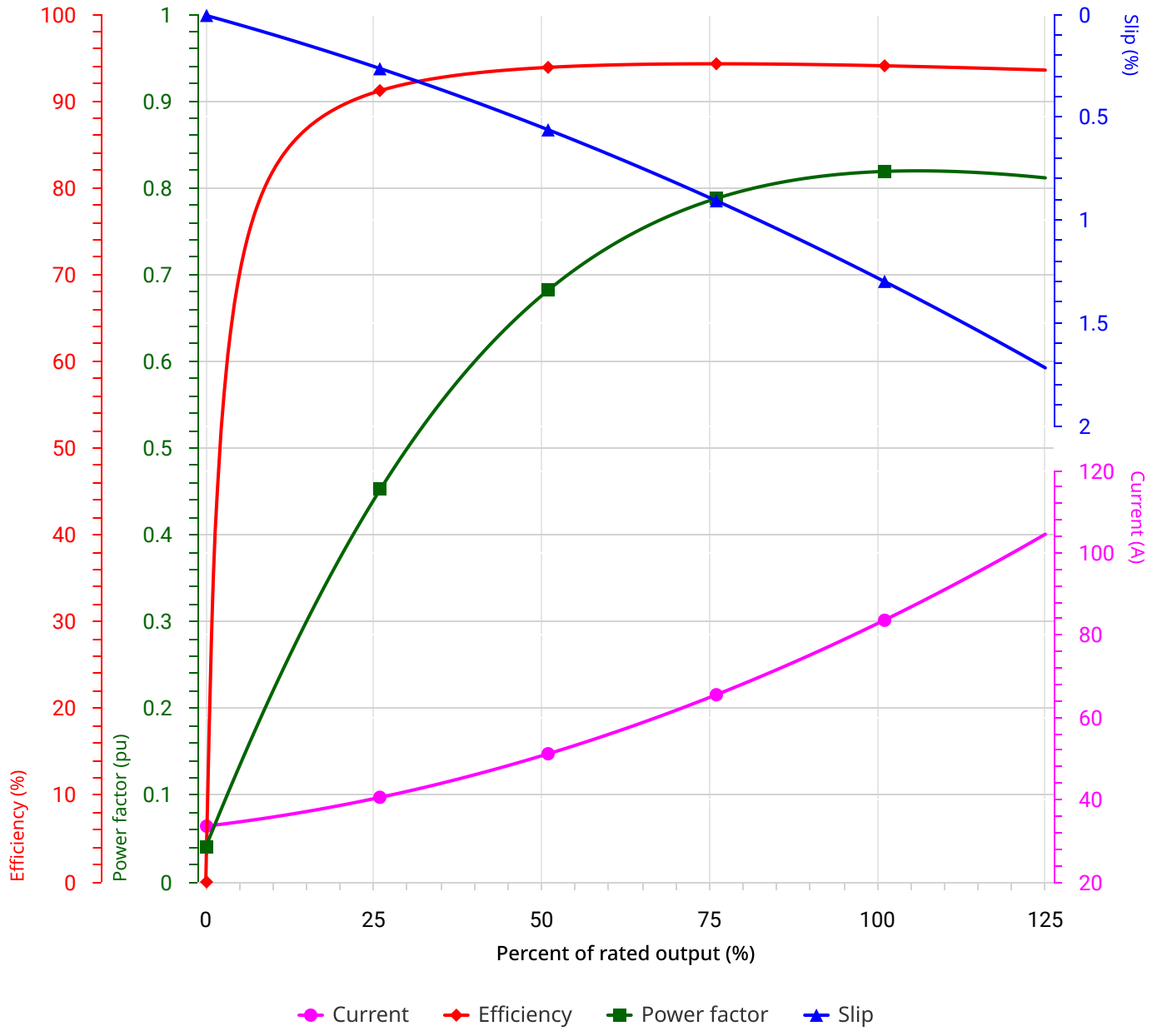
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Three Phase Induction Motor - Squirrel Cage

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|---|---|
| Customer | : |
| Product line | : Explosion Proof Motors - NEMA Premium Efficiency (Derating) |
| Product code | : 11439852 |




| | |
|---|---|
| Performance | : 60 HP (45 kW) 400V 50Hz 6P 404/5T |

| | | | |
|---|---|---|---|
| Rated current | : 84.3 A | Moment of inertia (J) | : 1.69 kgm² |
| LRC | : 7.9 Code J | Duty cycle | : Cont.(S1) |
| Rated torque | : 44.1 kgfm | Insulation class | : F |
| Locked rotor torque | : 260 % | Service factor | : 1.00 |
| Breakdown torque | : 280 % | Temperature rise | : 80 K |
| Rated speed | : 987 rpm | Design | : A |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
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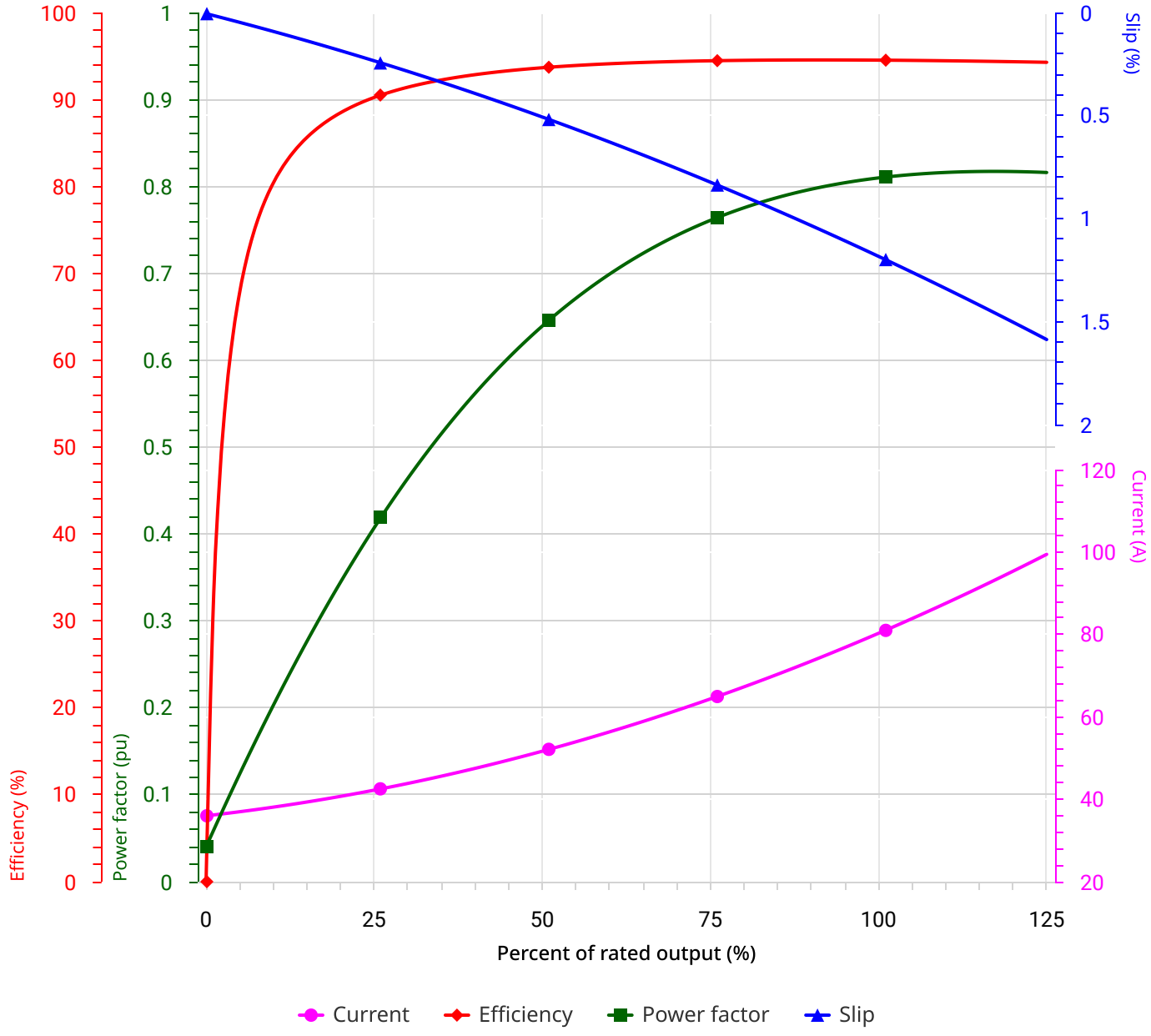
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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|---|---|
| Customer | : |
| Product line | : Explosion Proof Motors - NEMA Premium Efficiency (Derating) |
| Product code | : 11439852 |




| | |
|---|---|
| Performance | : 60 HP (45 kW) 415V 50Hz 6P 404/5T |

| | | | |
|---|---|---|---|
| Rated current | : 81.8 A | Moment of inertia (J) | : 1.69 kgm² |
| LRC | : 8.4 Code K | Duty cycle | : Cont.(S1) |
| Rated torque | : 44.1 kgfm | Insulation class | : F |
| Locked rotor torque | : 280 % | Service factor | : 1.00 |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 988 rpm | Design | : A |

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