# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 11441768 |

| | | | |
|---|---|---|---|
| Frame | : 213/5T | Cooling method | : IC411 - TEFC |
| 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 | : 74.0 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0268 kgm² |
| Design | : B | | |

| Output | | 10 HP (7.5 kW) | 10 HP (7.5 kW) | 10 HP (7.5 kW) | 10 HP (7.5 kW) | 7.5 HP (5.5 | 7.5 HP (5.5 | 7.5 HP (5.5 |
|---|---|---|---|---|---|---|---|---|
| Poles | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Frequency | | 60 Hz | 50 Hz | 50 Hz | 50 Hz | 50 Hz | 50 Hz | 50 Hz |
| Rated voltage | | 230/460 V | 380 V | 400 V | 415 V | 380 V | 400 V | 415 V |
| Rated current | | 23.2/11.6 A | 14.1 A | 13.6 A | 13.1 A | 10.5 A | 10.1 A | 9.91 A |
| L. R. Amperes | | 167/83.5 A | 79.2 A | 87.0 A | 90.4 A | 82.9 A | 87.7 A | 90.2 A |
| LRC | | 7.2 Code H | 5.6 Code F | 6.4 Code G | 6.9 Code H | 7.9 Code J | 8.7 Code K | 9.1 Code K |
| No load current | | 7.00/3.50 A | 3.50 A | 3.70 A | 3.90 A | 3.50 A | 3.70 A | 3.90 A |
| Rated speed | | 3530 rpm | 2910 rpm | 2920 rpm | 2925 rpm | 2935 rpm | 2945 rpm | 2945 rpm |
| Slip | | 1.94 % | 3.00 % | 2.67 % | 2.50 % | 2.17 % | 1.83 % | 1.83 % |
| Rated torque | | 2.06 kgfm | 2.49 kgfm | 2.49 kgfm | 2.48 kgfm | 1.85 kgfm | 1.85 kgfm | 1.85 kgfm |
| Locked rotor torque | | 220 % | 170 % | 180 % | 200 % | 220 % | 240 % | 260 % |
| Breakdown torque | | 290 % | 220 % | 250 % | 270 % | 300 % | 340 % | 360 % |
| Service factor | | 1.25 | 1.00 | 1.00 | 1.00 | 1.25 | 1.25 | 1.25 |
| Temperature rise | | 80 K | 105 K | 95 K | 95 K | 80 K | 80 K | 80 K |
| Noise level | | 68 dB(A) | 63 dB(A) | 63 dB(A) | 63 dB(A) | 63 dB(A) | 63 dB(A) | 63 dB(A) |
| Locked rotor time | | 15 s (hot) 27 s (cold) | 12 s (hot) 22 s (cold) | 11 s (hot) 20 s (cold) | 11 s (hot) 20 s (cold) | 17 s (hot) 31 s (cold) | 14 s (hot) 25 s (cold) | 15 s (hot) 27 s (cold) |
| Efficiency (%) | 50% | 89.5 | 89.5 | 89.5 | 89.5 | 88.6 | 88.4 | 87.7 |
| | 75% | 90.2 | 89.5 | 89.5 | 89.5 | 89.6 | 89.6 | 89.5 |
| | 100% | 90.2 | 88.5 | 88.5 | 88.5 | 89.5 | 89.5 | 89.8 |
| Power Factor | Start | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 |
| | 50% | 0.79 | 0.83 | 0.81 | 0.79 | 0.75 | 0.72 | 0.70 |
| | 75% | 0.87 | 0.90 | 0.88 | 0.87 | 0.86 | 0.83 | 0.82 |
| | 100% | 0.9 | 0.91 | 0.9 | 0.9 | 0.89 | 0.88 | 0.86 |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | | | | |
| P1 (0,9;1,0) | | 10.64 | 12.73 | 12.73 | 12.73 | 11.49 | 11.49 | 11.13 |
| P2 (0,5;1,0) | | 8.88 | 10.62 | 10.62 | 10.62 | 9.59 | 9.59 | 9.28 |
| P3 (0,25;1,0) | | 8.18 | 9.78 | 9.78 | 9.78 | 8.83 | 8.83 | 8.55 |
| P4 (0,9;0,5) | | 5.08 | 6.08 | 6.08 | 6.08 | 5.49 | 5.49 | 5.31 |
| P5 (0,5;0,5) | | 3.27 | 3.91 | 3.91 | 3.91 | 3.53 | 3.53 | 3.42 |
| P6 (0,5;0,25) | | 2.03 | 2.43 | 2.43 | 2.43 | 2.19 | 2.19 | 2.12 |
| P7 (0,25;0,25) | | 1.29 | 1.54 | 1.54 | 1.54 | 1.39 | 1.39 | 1.35 |

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6308-ZZ | 6207-ZZ |
| Lubrication interval | - | - |
| Lubricant amount | - | - |
| Lubricant type | POLYUREA BASED GREASE | |

Foundation loads
Max. traction : 85 kgf
Max. compression : 159 kgf

Notes:
Naval Certification Organism: NOT APPLICABLE
Naval Service: NOT APPLICABLE

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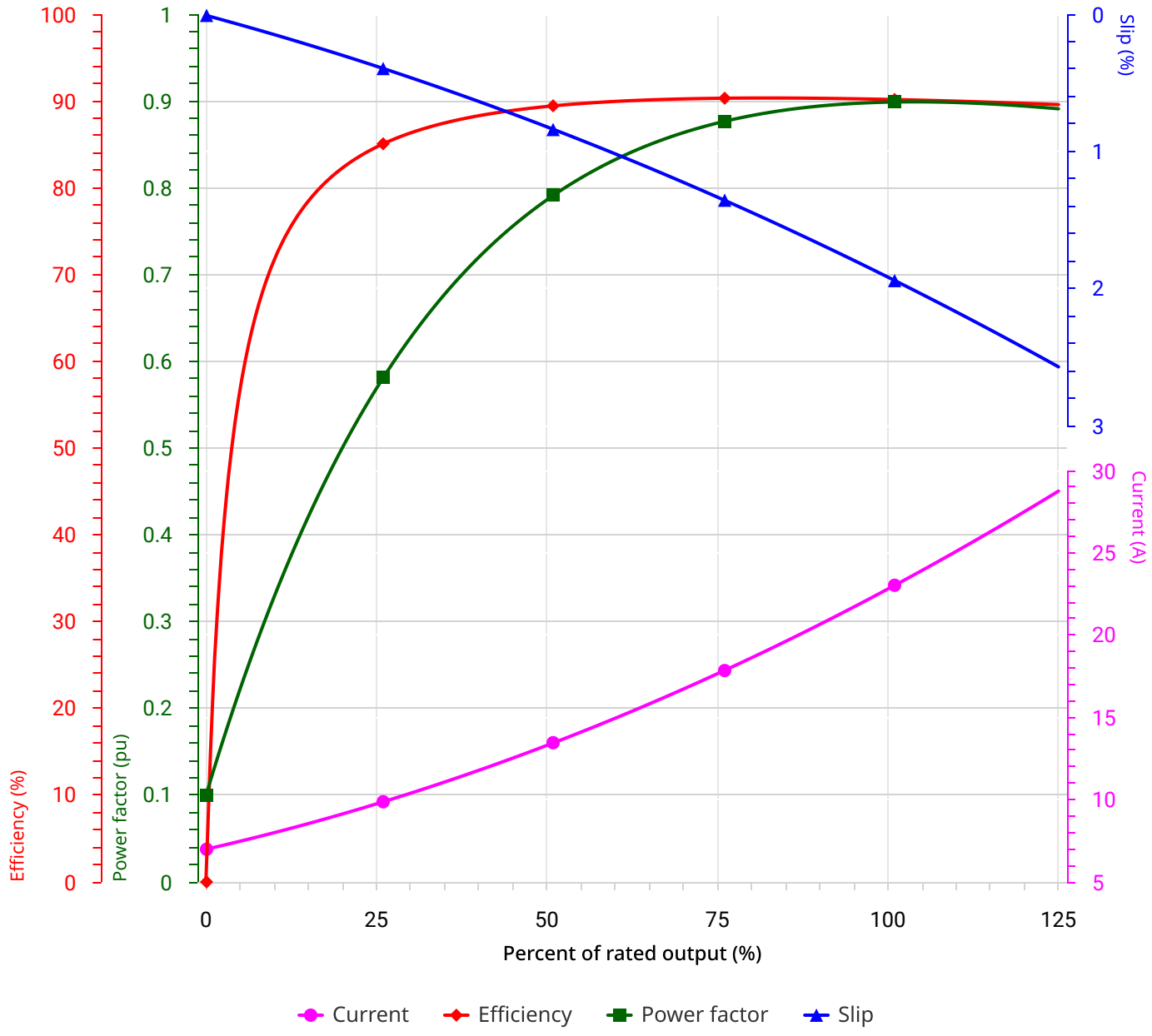
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 11441768 |




| | |
|---|---|
| Performance | : 10 HP (7.5 kW) 208/230/460V 60Hz 2P 213/5T |

| | | | |
|---|---|---|---|
| Rated current | : 25.7/23.2/11.6 A | Moment of inertia (J) | : 0.0268 kgm² |
| LRC | : 7.2 Code H | Duty cycle | : Cont.(S1) |
| Rated torque | : 2.06 kgfm | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : 1.25 |
| Breakdown torque | : 290 % | Temperature rise | : 80 K |
| Rated speed | : 3530 rpm | Design | : B |

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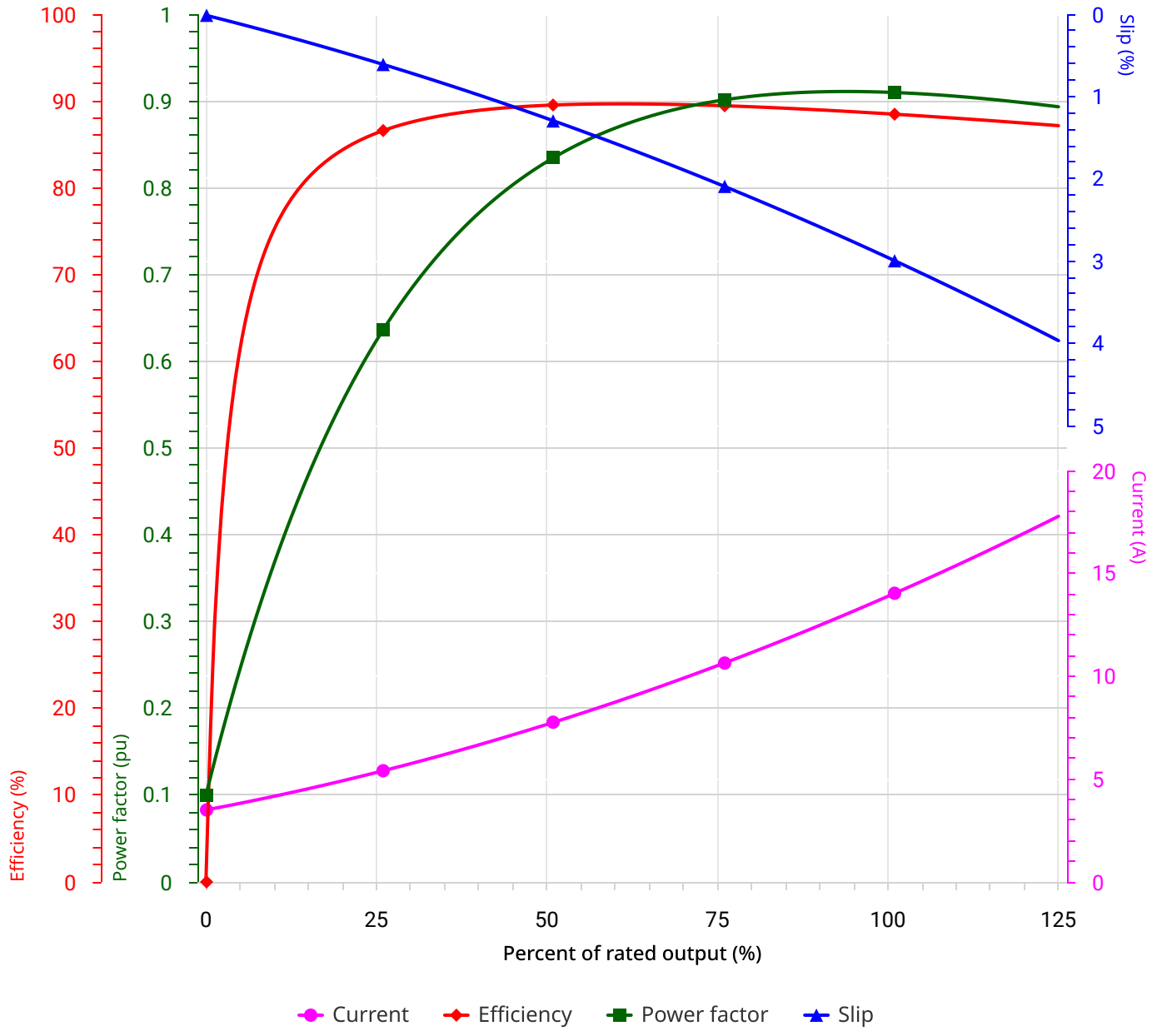
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 11441768 |




| | |
|---|---|
| Performance | : 10 HP (7.5 kW) 380V 50Hz 2P 213/5T |

| | | | |
|---|---|---|---|
| Rated current | : 14.1 A | Moment of inertia (J) | : 0.0268 kgm² |
| LRC | : 5.6 Code F | Duty cycle | : Cont.(S1) |
| Rated torque | : 2.49 kgfm | Insulation class | : F |
| Locked rotor torque | : 170 % | Service factor | : 1.00 |
| Breakdown torque | : 220 % | Temperature rise | : 105 K |
| Rated speed | : 2910 rpm | Design | : B |

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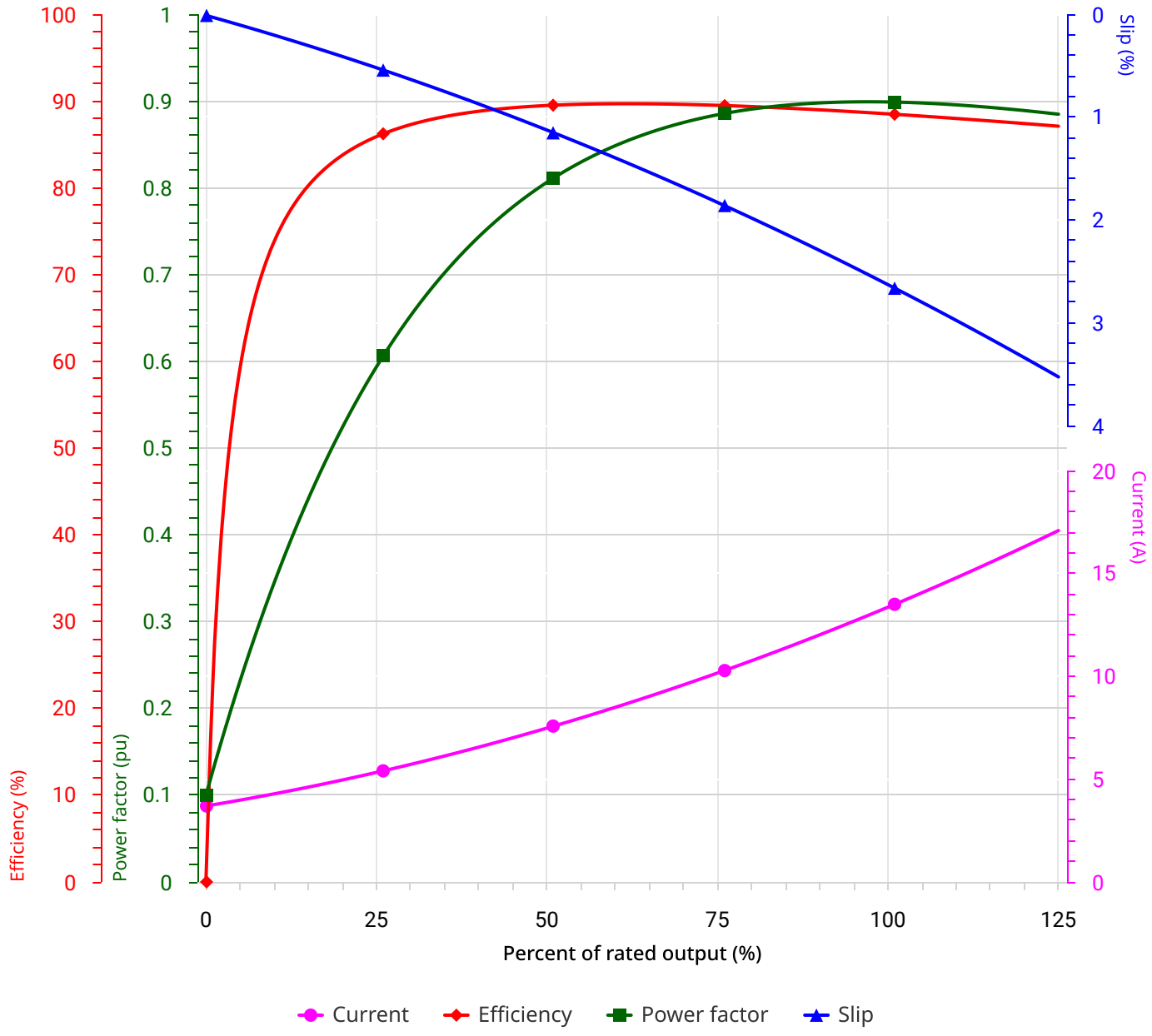
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Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 11441768 |




| | |
|---|---|
| Performance | : 10 HP (7.5 kW) 400V 50Hz 2P 213/5T |

| | | | |
|---|---|---|---|
| Rated current | : 13.6 A | Moment of inertia (J) | : 0.0268 kgm² |
| LRC | : 6.4 Code G | Duty cycle | : Cont.(S1) |
| Rated torque | : 2.49 kgfm | Insulation class | : F |
| Locked rotor torque | : 180 % | Service factor | : 1.00 |
| Breakdown torque | : 250 % | Temperature rise | : 95 K |
| Rated speed | : 2920 rpm | Design | : B |

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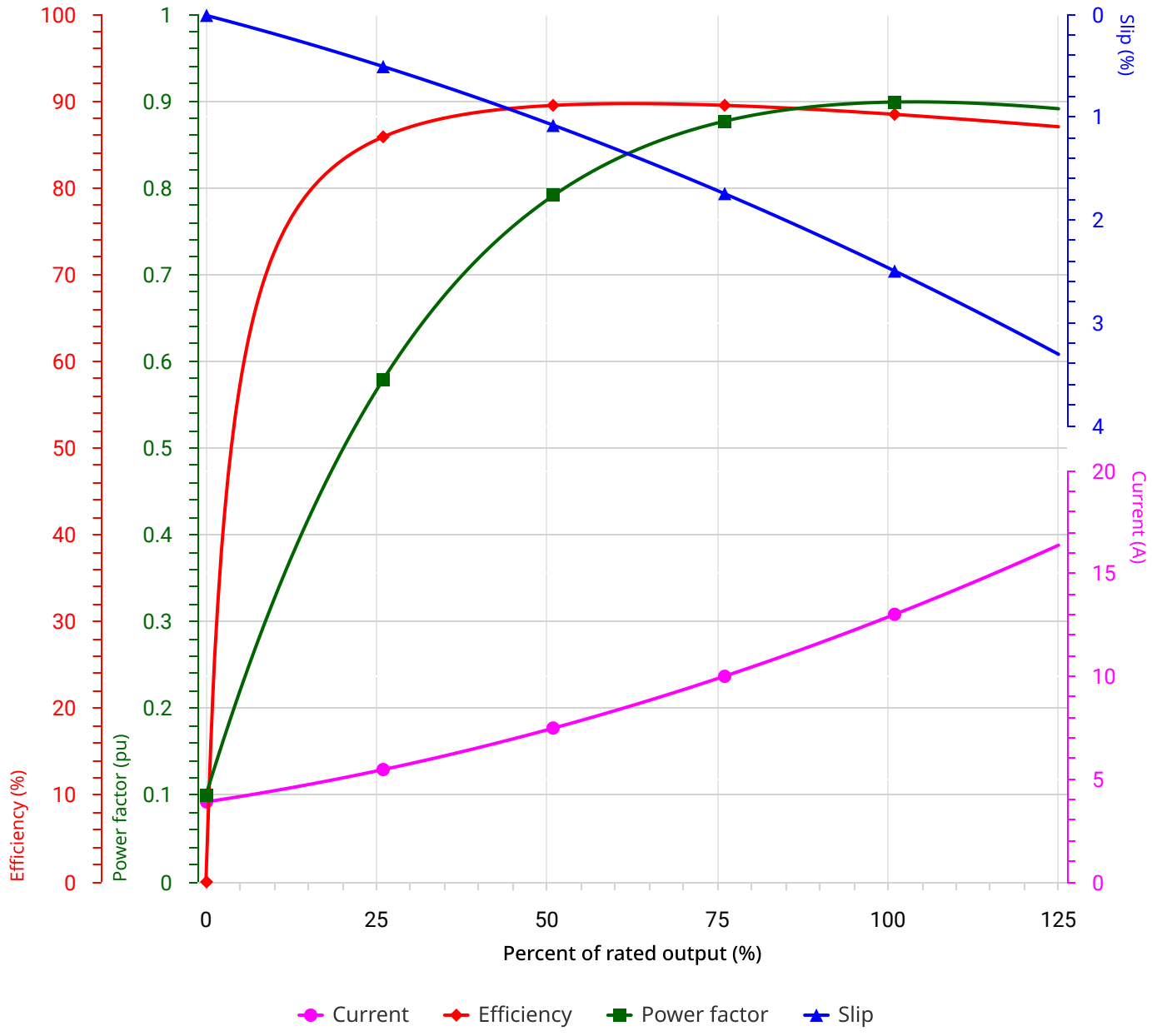
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| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 11441768 |




| | |
|---|---|
| Performance | : 10 HP (7.5 kW) 415V 50Hz 2P 213/5T |

| | | | |
|---|---|---|---|
| Rated current | : 13.1 A | Moment of inertia (J) | : 0.0268 kgm² |
| LRC | : 6.9 Code H | Duty cycle | : Cont.(S1) |
| Rated torque | : 2.48 kgfm | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.00 |
| Breakdown torque | : 270 % | Temperature rise | : 95 K |
| Rated speed | : 2925 rpm | Design | : B |

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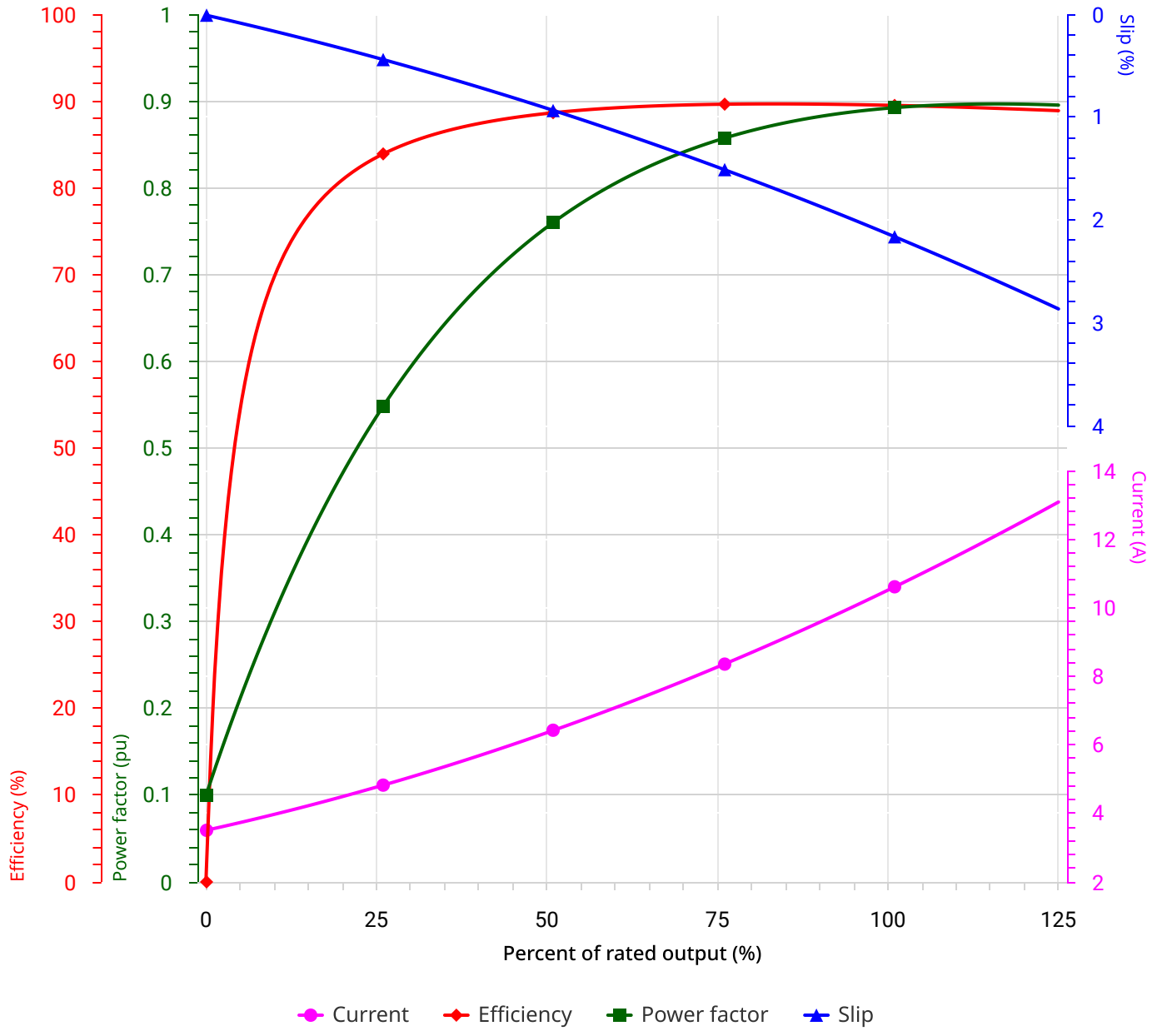
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Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 11441768 |




| | |
|---|---|
| Performance | : 7.5 HP (5.5 kW) 380V 50Hz 2P 213/5T |

| | | | |
|---|---|---|---|
| Rated current | : 10.5 A | Moment of inertia (J) | : 0.0268 kgm² |
| LRC | : 7.9 Code J | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.85 kgfm | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : 1.25 |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 2935 rpm | Design | : B |

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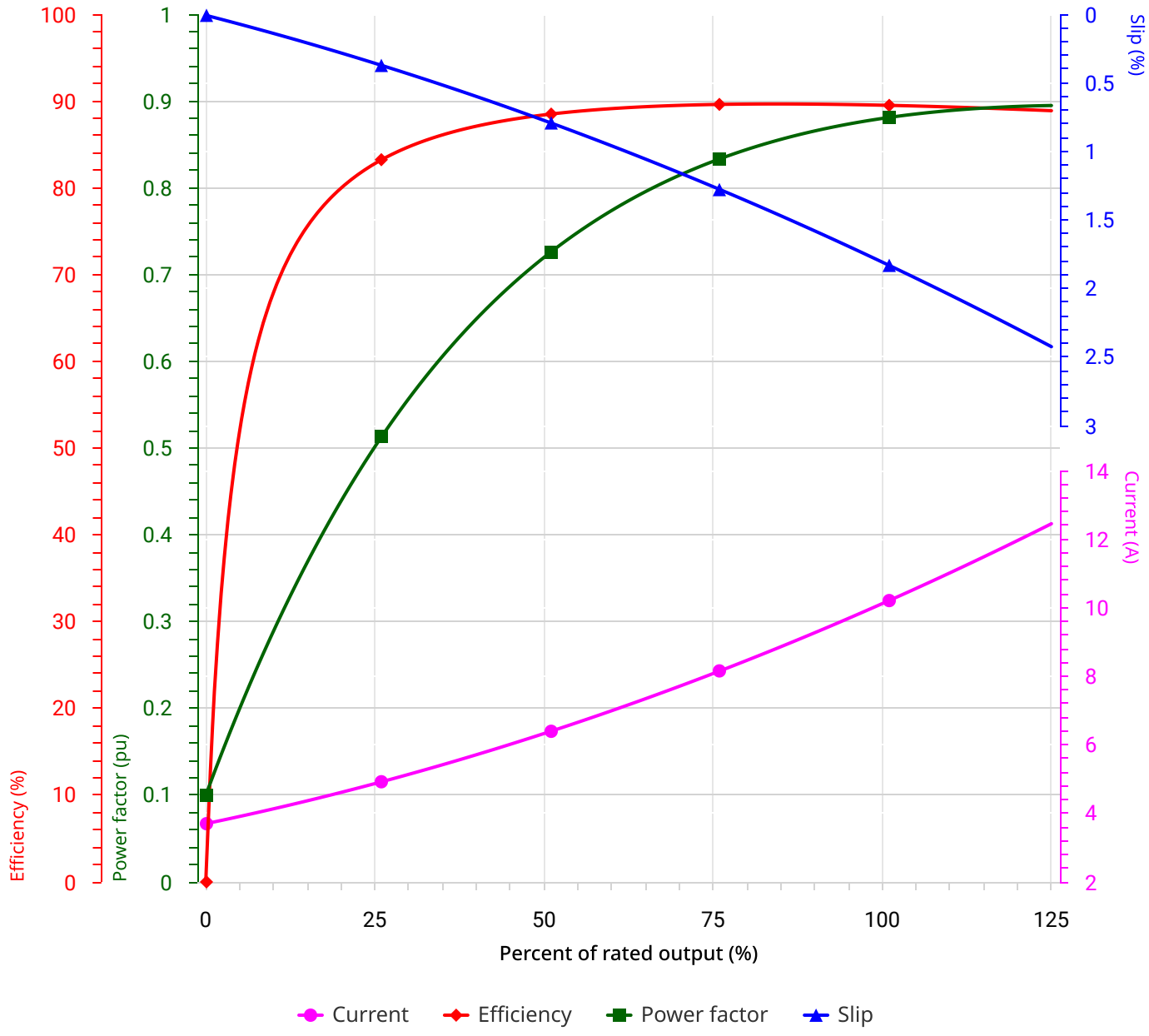
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|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 11441768 |




| | |
|---|---|
| Performance | : 7.5 HP (5.5 kW) 400V 50Hz 2P 213/5T |

| | | | |
|---|---|---|---|
| Rated current | : 10.1 A | Moment of inertia (J) | : 0.0268 kgm² |
| LRC | : 8.7 Code K | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.85 kgfm | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.25 |
| Breakdown torque | : 340 % | Temperature rise | : 80 K |
| Rated speed | : 2945 rpm | Design | : B |

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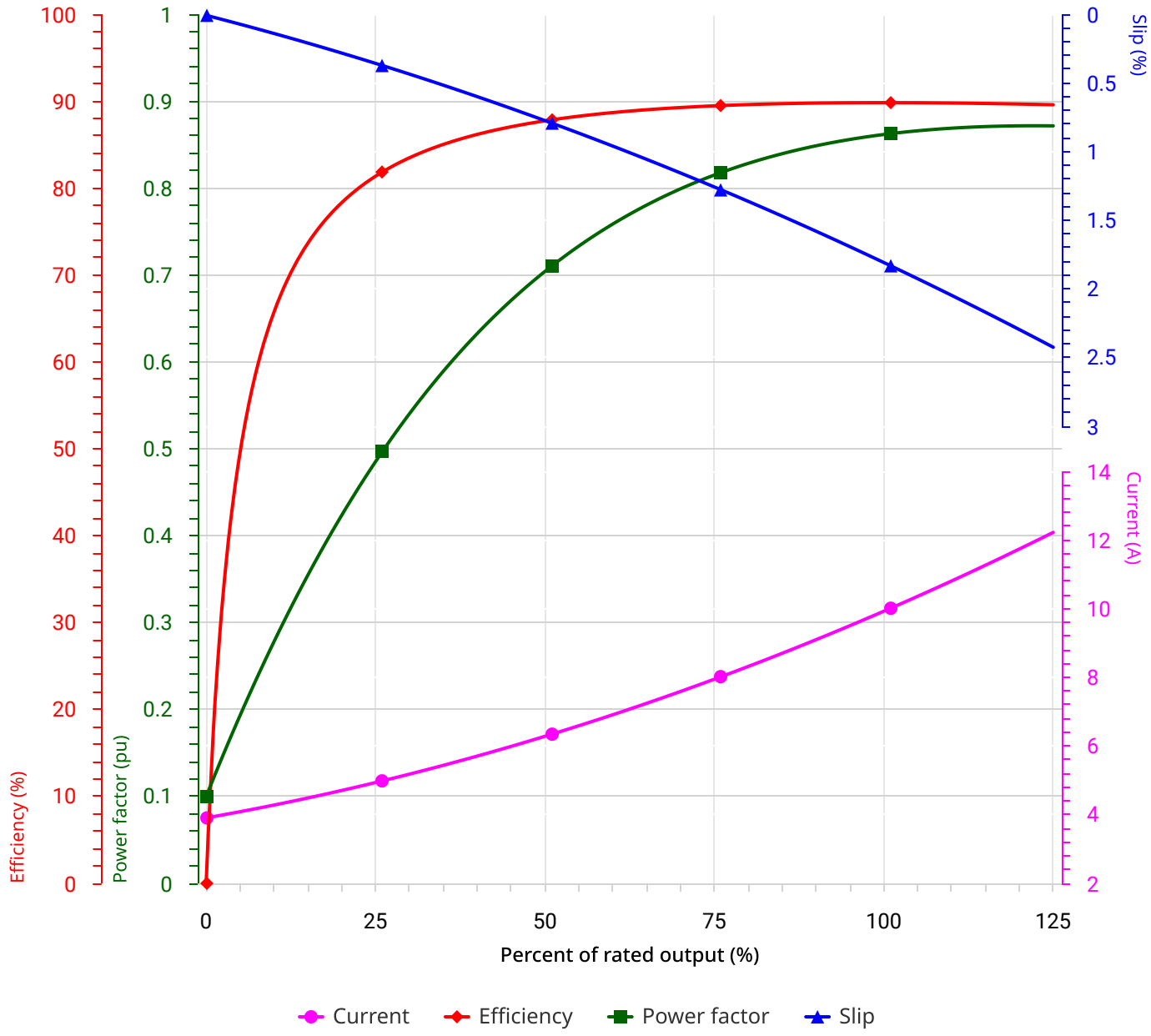
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 11441768 |




| | |
|---|---|
| Performance | : 7.5 HP (5.5 kW) 415V 50Hz 2P 213/5T |

| | | | |
|---|---|---|---|
| Rated current | : 9.91 A | Moment of inertia (J) | : 0.0268 kgm² |
| LRC | : 9.1 Code K | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.85 kgfm | Insulation class | : F |
| Locked rotor torque | : 260 % | Service factor | : 1.25 |
| Breakdown torque | : 360 % | Temperature rise | : 80 K |
| Rated speed | : 2945 rpm | Design | : B |

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