# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - Nema Premium Efficiency
Product code : 11611205

| | | | |
|---|---|---|---|
| Frame | : 143/5T | 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 | : 23.2 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0066 kgm² |
| Design | : B | | |

| Output | | 2 HP (1.5 | 2 HP (1.5 | 1.5 HP (1.1 | 1.5 HP (1.1 | 1.5 HP (1.1 | 2 HP (1.5 | 2 HP (1.5 | 2 HP (1.5 |
|---|---|---|---|---|---|---|---|---|---|
| Poles | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Frequency | | 60 Hz | 60 Hz | 50 Hz | 50 Hz | 50 Hz | 50 Hz | 50 Hz | 50 Hz |
| Rated voltage | | 230/460 V | 208 V | 380 V | 400 V | 415 V | 380 V | 400 V | 415 V |
| Rated current | | 5.72/2.86 A | 5.85 A | 2.67 A | 2.72 A | 2.72 A | 3.37 A | 3.26 A | 3.27 A |
| L. R. Amperes | | | 48.6 A | 21.9 A | 23.7 A | 24.5 A | 21.9 A | 23.5 A | 25.2 A |
| LRC | | 47.5/23.7 A | 8.3 Code K | 8.2 Code L | 8.7 Code M | 9.0 Code N | 6.5 Code J | 7.2 Code K | 7.7 Code L |
| No load current | | | | 1.70 A | | | 1.70 A | | 2.10 A |
| Rated speed | | 8.3 Code L | 2.98 A | 1460 rpm | 1.90 A | 2.10 A | 1435 rpm | 1.90 A | 1450 rpm |
| Slip | | 3.46/1.73 A | 1750 rpm | 2.67 % | 1465 rpm | 1465 rpm | 4.33 % | 1440 rpm | 3.33 % |
| Rated torque | | | 2.78 % | 0.746 kgfm | 2.33 % | 2.33 % | 1.01 kgfm | 4.00 % | 1.00 kgfm |
| Locked rotor torque | | 1750 rpm | 1.00 kgfm | | 0.743 kgfm | 0.743 kgfm | 240 % | 1.01 kgfm | 280 % |
| Breakdown torque | | 2.78 % | 280 % | 320 % | | | 270 % | 260 % | 310 % |
| Service factor | | 0.829 kgfm | 350 % | 360 % | 340 % | 380 % | 1.25 | 290 % | 1.25 |
| Temperature rise | | | 1.25 | 1.25 | 380 % | 410 % | 80 K | 1.25 | 80 K |
| Noise level | | 280 % | 80 K | 80 K | 1.25 | 1.25 | 49 dB(A) | 80 K | 49 dB(A) |
| Locked rotor time | | 350 % | 51.0 dB(A) | 49 dB(A) | 80 K | 80 K | 11 s (hot) 20 s (cold) | 49 dB(A) | 9 s (hot) 16 s (cold) |
| | | 1.25 | 10 s (hot) 18 s (cold) | 16 s (hot) 29 s (cold) | 49 dB(A) | 49 dB(A) | | 10 s (hot) 18 s (cold) | |
| | | 80 K | | | 14 s (hot) 25 s (cold) | 12 s (hot) 22 s (cold) | | | |
| | | 51 dB(A) | | | | | | | |
| | | 10 s (hot) 18 s (cold) | | | | | | | |
| Efficiency (%) | 50% | 85.0 | 85.0 | 83.5 | 82.0 | 81.0 | 84.0 | 83.5 | 83.0 |
| | 75% | 86.0 | 86.0 | 84.2 | 83.5 | 83.1 | 84.0 | 84.0 | 84.0 |
| | 100% | 86.5 | 86.5 | 84.5 | 84.5 | 84.1 | 82.5 | 84.0 | 84.0 |
| Power Factor | Start | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| | 50% | 0.55 | 0.55 | 0.52 | 0.48 | 0.45 | 0.62 | 0.58 | 0.53 |
| | 75% | 0.68 | 0.68 | 0.65 | 0.61 | 0.56 | 0.75 | 0.72 | 0.67 |
| | 100% | 0.76 | 0.76 | 0.74 | 0.69 | 0.67 | 0.82 | 0.79 | 0.76 |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | | | | | |
| P1 (0,9;1,0) | | 16.86 | 16.86 | 18.72 | 18.26 | 17.91 | 19.09 | 17.23 | 16.92 |
| P2 (0,5;1,0) | | 13.36 | 13.36 | 14.84 | 14.47 | 14.19 | 15.13 | 13.66 | 13.41 |
| P3 (0,25;1,0) | | 12.05 | 12.05 | 13.38 | 13.05 | 12.80 | 13.65 | 12.32 | 12.10 |
| P4 (0,9;0,5) | | 12.11 | 12.11 | 13.44 | 13.11 | 12.86 | 13.71 | 12.38 | 12.15 |
| P5 (0,5;0,5) | | 8.73 | 8.73 | 9.69 | 9.46 | 9.27 | 9.89 | 8.92 | 8.76 |
| P6 (0,5;0,25) | | 7.94 | 7.94 | 8.81 | 8.60 | 8.43 | 8.99 | 8.12 | 7.97 |
| P7 (0,25;0,25) | | 5.92 | 5.92 | 6.57 | 6.41 | 6.29 | 6.70 | 6.05 | 5.94 |

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6205-ZZ | 6204-ZZ |
| Lubrication interval | - | - |
| Lubricant amount | - | - |
| Lubricant type | POLYUREA BASED GREASE | |

Foundation loads
Max. traction : 76 kgf
Max. compression : 99 kgf

Notes:

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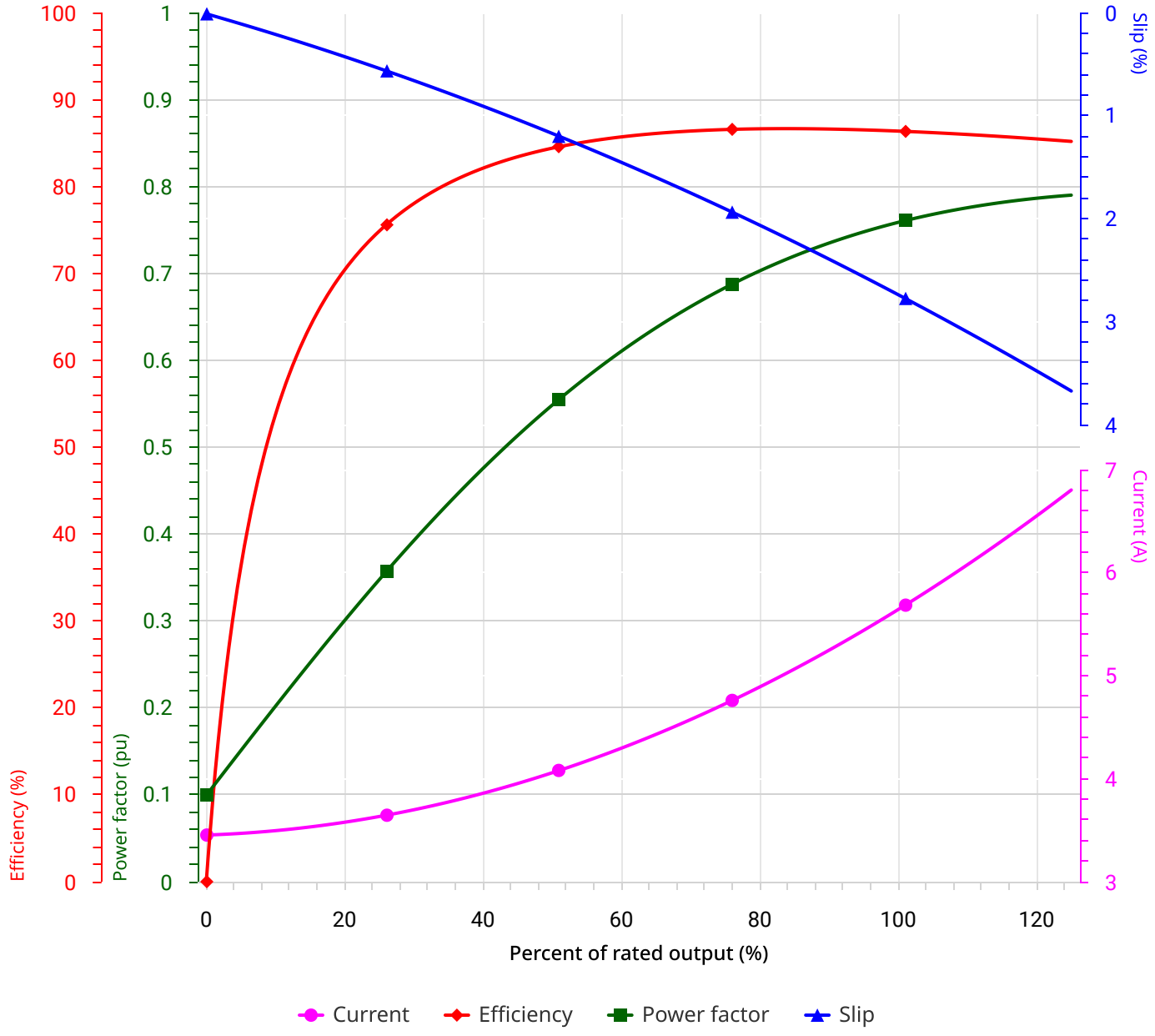
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 11611205 |




| | |
|---|---|
| Performance | : 2 HP (1.5 kW) 230/460V 60Hz 4P 143/5T |

| | | | |
|---|---|---|---|
| Rated current | : 5.72/2.86 A | Moment of inertia (J) | : 0.0066 kgm² |
| LRC | : 8.3 Code L | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.829 kgfm | Insulation class | : F |
| Locked rotor torque | : 280 % | Service factor | : 1.25 |
| Breakdown torque | : 350 % | Temperature rise | : 80 K |
| Rated speed | : 1750 rpm | Design | : B |

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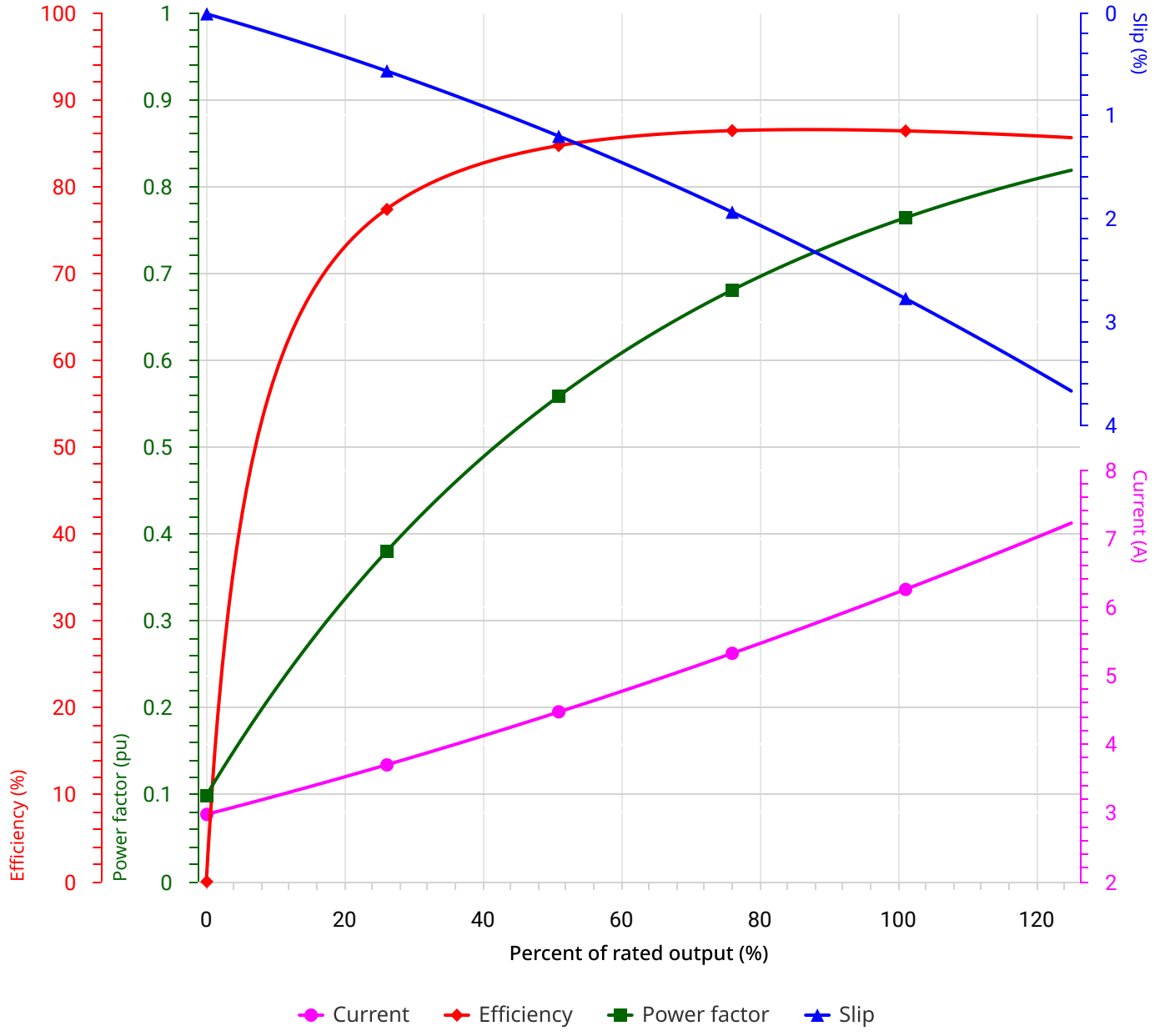
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 11611205 |




| | |
|---|---|
| Performance | : 2 HP (1.5 kW) 208V 60Hz 4P 143/5T |

| | | | |
|---|---|---|---|
| Rated current | : 5.85 A | Moment of inertia (J) | : 0.0066 kgm² |
| LRC | : 8.3 Code K | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.00 kgfm | Insulation class | : F |
| Locked rotor torque | : 280 % | Service factor | : 1.25 |
| Breakdown torque | : 350 % | Temperature rise | : 80 K |
| Rated speed | : 1750 rpm | Design | : 00002 |

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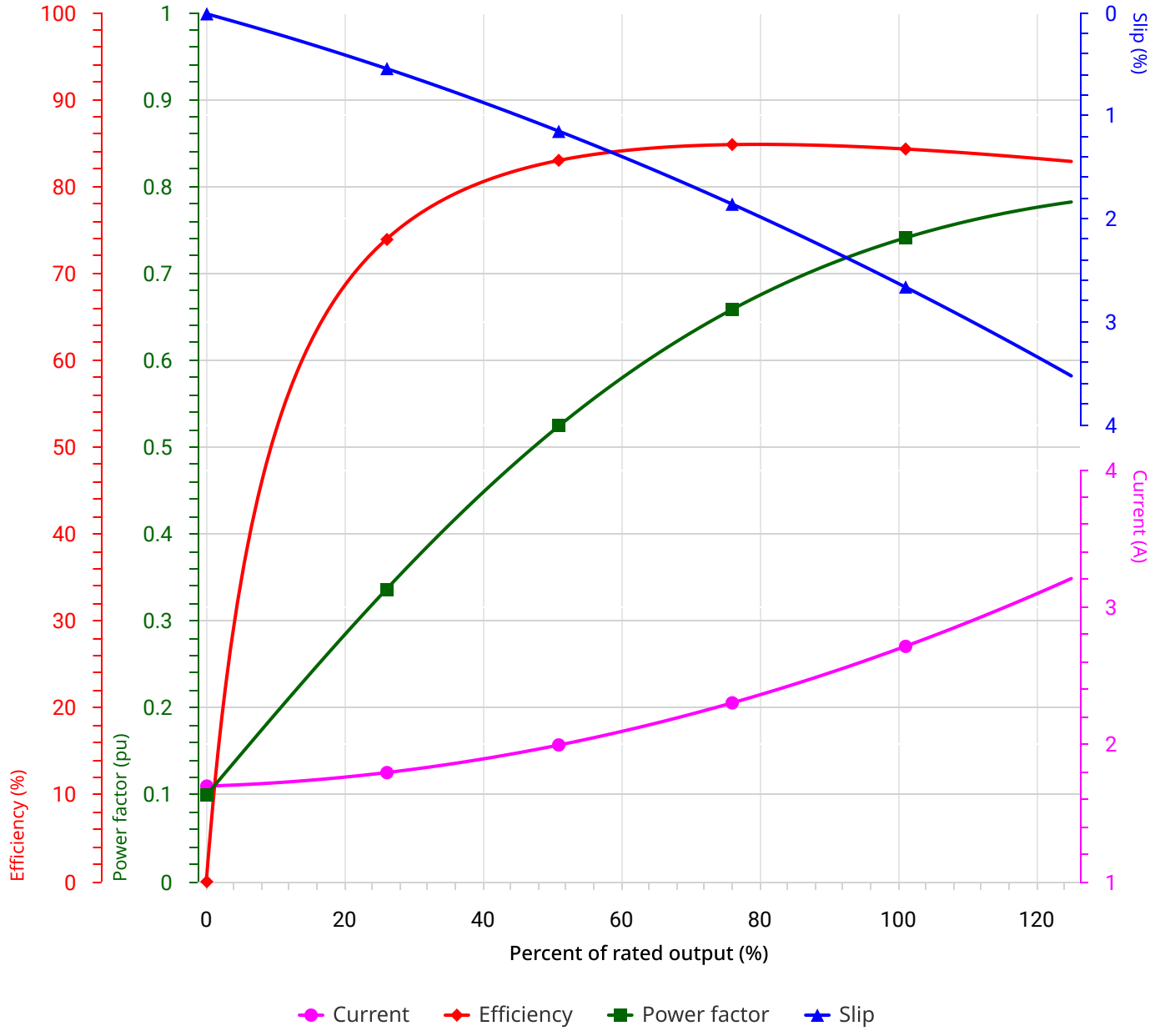
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 11611205 |




| | |
|---|---|
| Performance | : 1.5 HP (1.1 kW) 380V 50Hz 4P 143/5T |

| | | | |
|---|---|---|---|
| Rated current | : 2.67 A | Moment of inertia (J) | : 0.0066 kgm² |
| LRC | : 8.2 Code L | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.746 kgfm | Insulation class | : F |
| Locked rotor torque | : 320 % | Service factor | : 1.25 |
| Breakdown torque | : 360 % | Temperature rise | : 80 K |
| Rated speed | : 1460 rpm | Design | : B |

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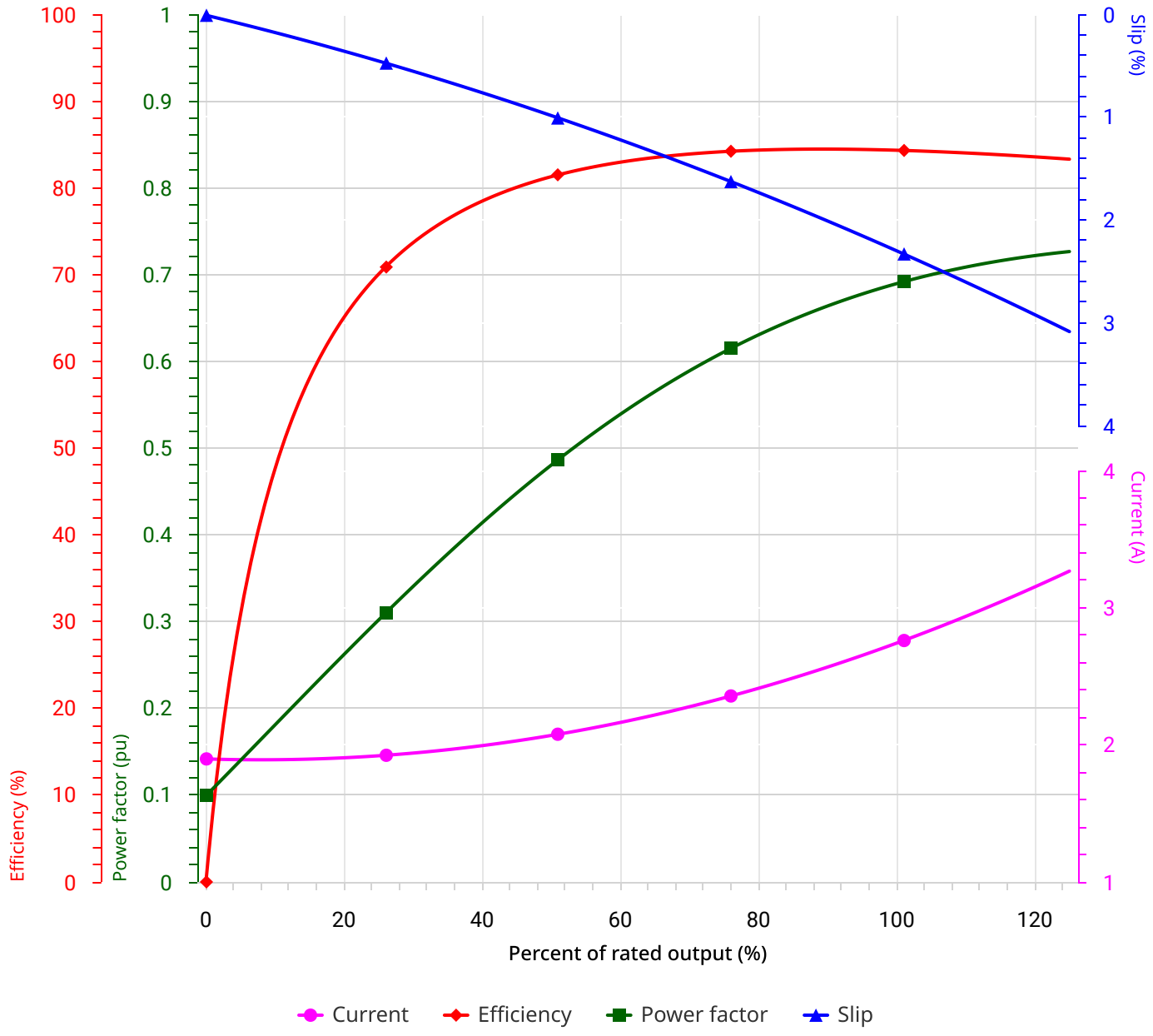
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 11611205 |




| | | | |
|---|---|---|---|
| Performance | : 1.5 HP (1.1 kW) 400V 50Hz 4P 143/5T | | |
| Rated current | : 2.72 A | Moment of inertia (J) | : 0.0066 kgm² |
| LRC | : 8.7 Code M | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.743 kgfm | Insulation class | : F |
| Locked rotor torque | : 340 % | Service factor | : 1.25 |
| Breakdown torque | : 380 % | Temperature rise | : 80 K |
| Rated speed | : 1465 rpm | Design | : B |

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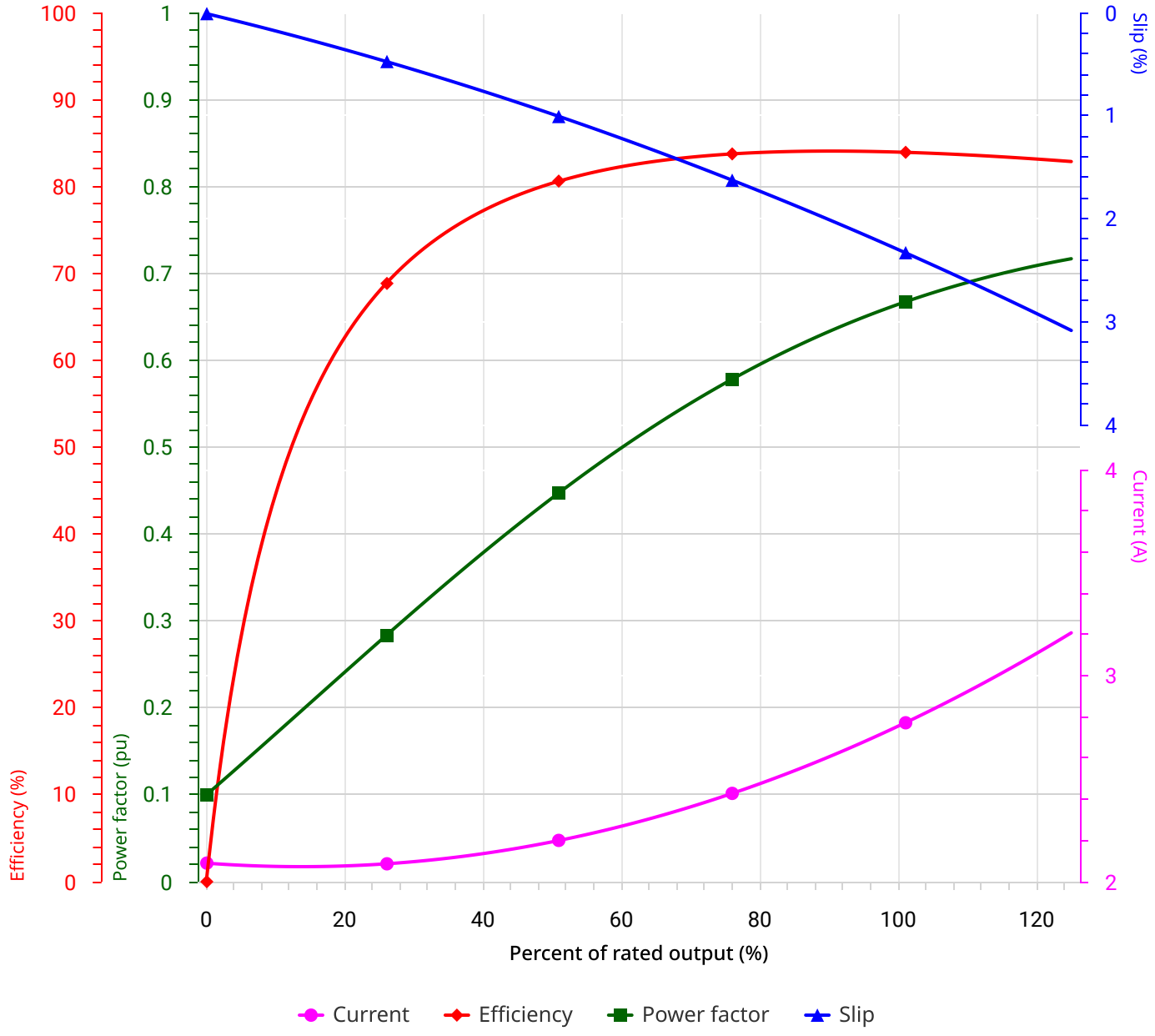
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 11611205 |




| | |
|---|---|
| Performance | : 1.5 HP (1.1 kW) 415V 50Hz 4P 143/5T |

| | | | |
|---|---|---|---|
| Rated current | : 2.72 A | Moment of inertia (J) | : 0.0066 kgm² |
| LRC | : 9.0 Code N | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.743 kgfm | Insulation class | : F |
| Locked rotor torque | : 380 % | Service factor | : 1.25 |
| Breakdown torque | : 410 % | Temperature rise | : 80 K |
| Rated speed | : 1465 rpm | Design | : B |

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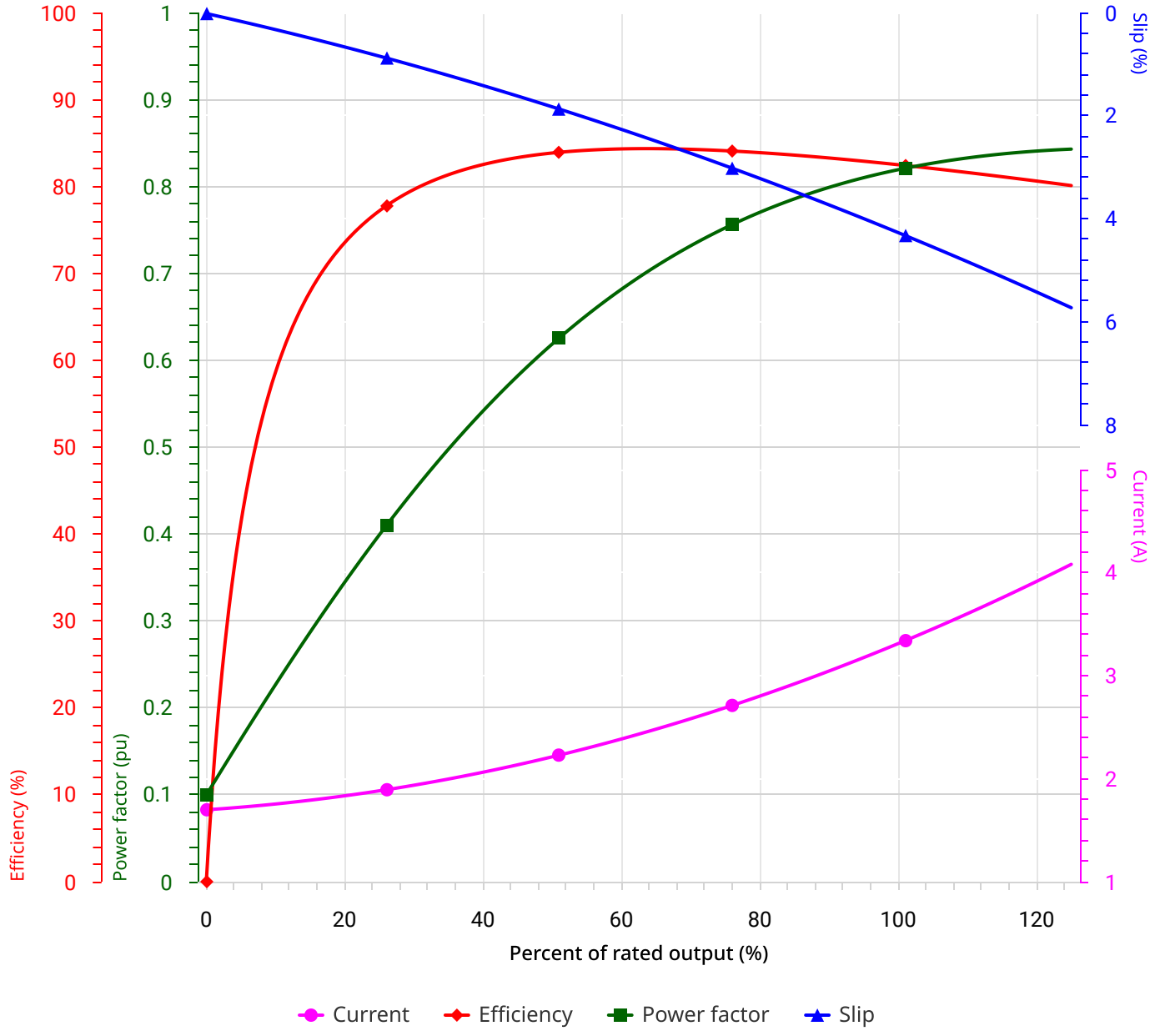
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 11611205 |




| | |
|---|---|
| Performance | : 2 HP (1.5 kW) 380V 50Hz 4P 143/5T |

| | | | |
|---|---|---|---|
| Rated current | : 3.37 A | Moment of inertia (J) | : 0.0066 kgm² |
| LRC | : 6.5 Code J | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.01 kgfm | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.25 |
| Breakdown torque | : 270 % | Temperature rise | : 80 K |
| Rated speed | : 1435 rpm | Design | : B |

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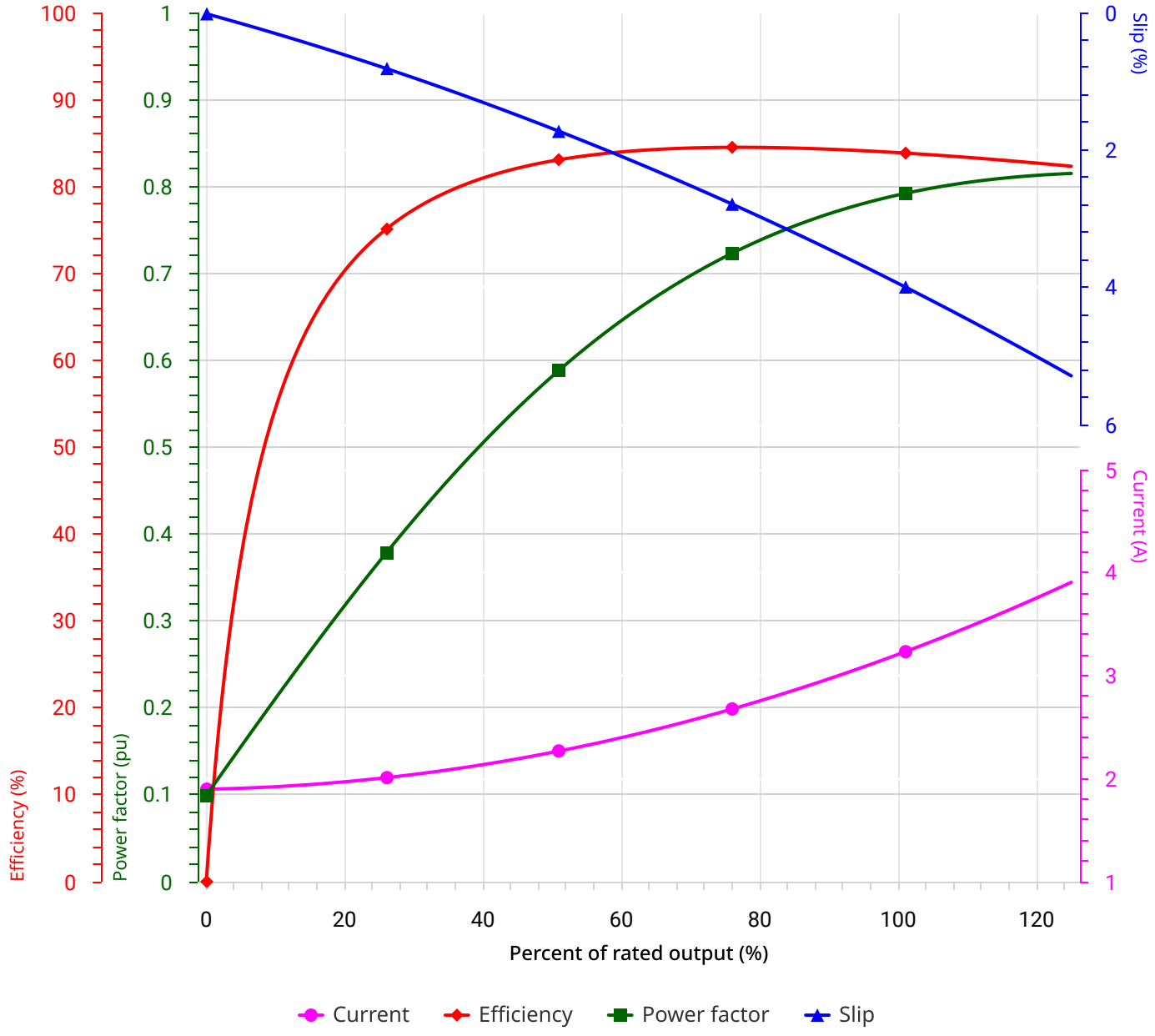
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Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 11611205 |




| | | | |
|---|---|---|---|
| Performance | : 2 HP (1.5 kW) 400V 50Hz 4P 143/5T | | |
| Rated current | : 3.26 A | Moment of inertia (J) | : 0.0066 kgm² |
| LRC | : 7.2 Code K | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.01 kgfm | Insulation class | : F |
| Locked rotor torque | : 260 % | Service factor | : 1.25 |
| Breakdown torque | : 290 % | Temperature rise | : 80 K |
| Rated speed | : 1440 rpm | Design | : B |

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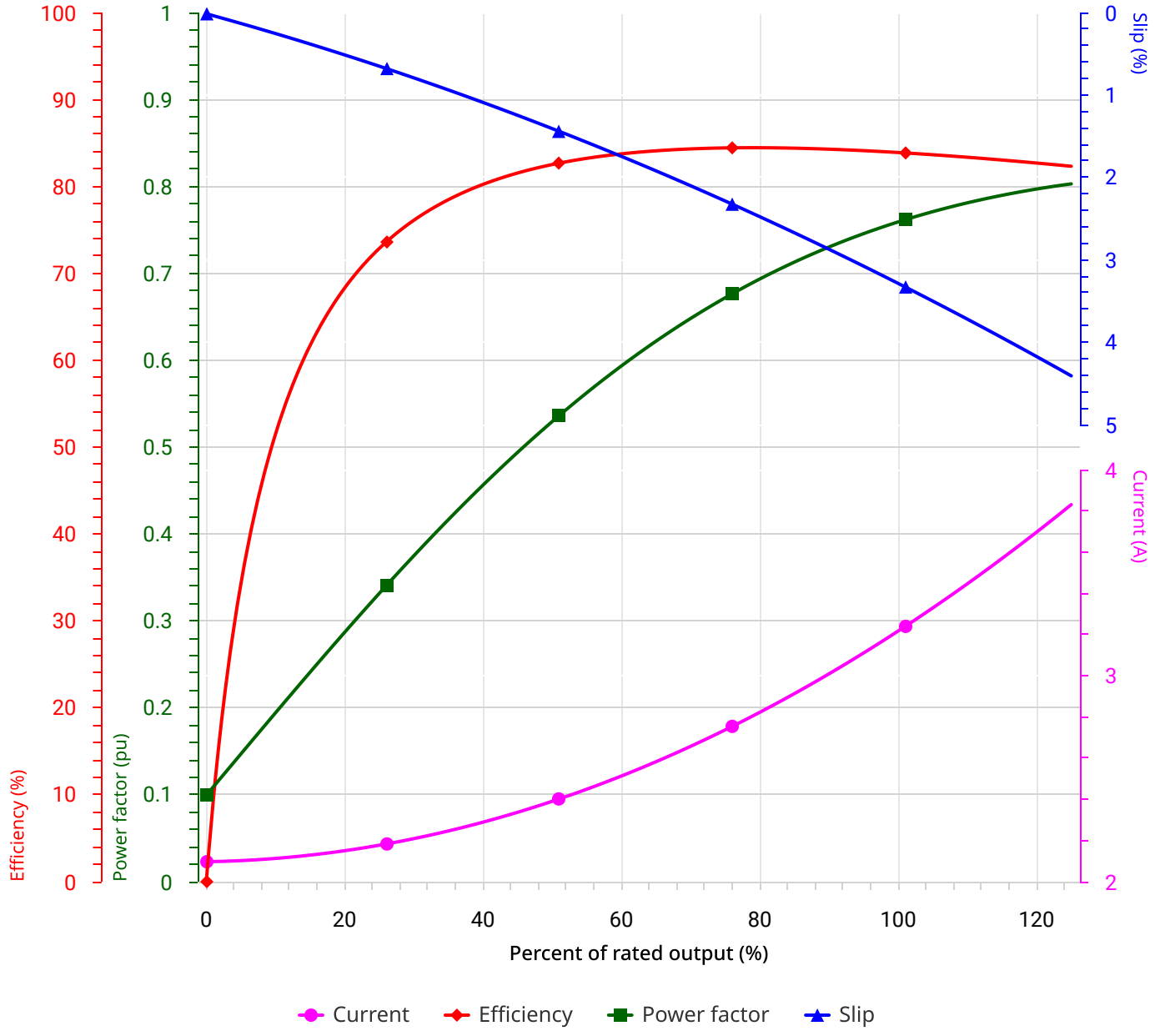
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Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency |
| Product code | : 11611205 |




| | |
|---|---|
| Performance | : 2 HP (1.5 kW) 415V 50Hz 4P 143/5T |

| | | | |
|---|---|---|---|
| Rated current | : 3.27 A | Moment of inertia (J) | : 0.0066 kgm² |
| LRC | : 7.7 Code L | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.00 kgfm | Insulation class | : F |
| Locked rotor torque | : 280 % | Service factor | : 1.25 |
| Breakdown torque | : 310 % | Temperature rise | : 80 K |
| Rated speed | : 1450 rpm | Design | : B |

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