**DATA SHEET**

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 P-base - Nema Premium Efficiency |
| Product code | : 14562032 |

| | | | |
|---|---|---|---|
| Frame | : 326HP | Cooling method | : IC411 - TEFC |
| Insulation class | : F | Mounting | : V1 |
| Duty cycle | : S1 | Rotation | : Both |
| Ambient temperature | : -20 °C to +40 °C | Starting method | : Direct On Line |
| Altitude | : 1000 m | Approx. weight | : 243 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.3861 kgm² |
| Design | : B | | |

| Output | | 50 HP (37 | 50 HP (37 | 40 HP (30 | 40 HP (30 | 40 HP (30 | 50 HP (37 | 50 HP (37 | 50 HP (37 |
|---|---|---|---|---|---|---|---|---|---|
| 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 | | 118/59.2 A | 131 A | 58.7 A | 57.1 A | 56.4 A | 71.6 A | 68.4 A | 66.3 A |
| L. R. Amperes | | 734/367 A | 812 A | 376 A | 400 A | 417 A | 372 A | 397 A | 411 A |
| LRC | | 6.2 Code G | 6.2 Code G | 6.4 Code G | 7.0 Code H | 7.4 Code J | 5.2 Code E | 5.8 Code F | 6.2 Code G |
| No load current | | 47.0/23.5 A | 40.5 A | 23.0 A | 24.0 A | 25.0 A | 23.0 A | 24.0 A | 25.0 A |
| Rated speed | | 1775 rpm | 1775 rpm | 1475 rpm | 1477 rpm | 1478 rpm | 1460 rpm | 1465 rpm | 1470 rpm |
| Slip | | 1.39 % | 1.39 % | 1.67 % | 1.53 % | 1.47 % | 2.67 % | 2.33 % | 2.00 % |
| Rated torque | | 20.4 kgfm | 20.0 kgfm | 19.7 kgfm | 19.7 kgfm | 19.6 kgfm | 24.9 kgfm | 24.8 kgfm | 24.7 kgfm |
| Locked rotor torque | | 230 % | 225 % | 230 % | 250 % | 260 % | 180 % | 200 % | 210 % |
| Breakdown torque | | 270 % | 270 % | 260 % | 300 % | 330 % | 200 % | 240 % | 260 % |
| Service factor | | 1.25 | 1.25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Temperature rise | | 80 K | 80 K | 80 K | 80 K | 80 K | 105 K | 105 K | 105 K |
| Noise level | | 70 dB(A) | 70.0 dB(A) | 67 dB(A) | 67 dB(A) | 67 dB(A) | 67 dB(A) | 67 dB(A) | 67 dB(A) |
| Locked rotor time | | 15 s (hot) 27 s (cold) | 15 s (hot) 27 s (cold) | 11 s (hot) 20 s (cold) | 11 s (hot) 20 s (cold) | 11 s (hot) 20 s (cold) | 11 s (hot) 20 s (cold) | 11 s (hot) 20 s (cold) | 11 s (hot) 20 s (cold) |
| Efficiency (%) | 50% | 93.0 | 93.0 | 92.5 | 91.5 | 91.5 | 93.0 | 92.4 | 92.4 |
| | 75% | 94.1 | 94.1 | 93.1 | 92.8 | 93.0 | 93.0 | 93.0 | 93.0 |
| | 100% | 94.5 | 94.5 | 93.6 | 93.6 | 93.6 | 92.4 | 93.0 | 93.5 |
| Power Factor | Start | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 |
| | 50% | 0.66 | 0.66 | 0.64 | 0.60 | 0.57 | 0.72 | 0.68 | 0.65 |
| | 75% | 0.77 | 0.77 | 0.77 | 0.73 | 0.70 | 0.81 | 0.79 | 0.76 |
| | 100% | 0.83 | 0.83 | 0.83 | 0.81 | 0.79 | 0.85 | 0.84 | 0.83 |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | | | | | |
| P1 (0,9;1,0) | | 5.68 | 5.68 | 5.68 | 5.68 | 5.68 | 5.68 | 5.68 | 5.68 |
| P2 (0,5;1,0) | | 4.86 | 4.86 | 4.86 | 4.86 | 4.86 | 4.86 | 4.86 | 4.86 |
| P3 (0,25;1,0) | | 4.74 | 4.74 | 4.74 | 4.74 | 4.74 | 4.74 | 4.74 | 4.74 |
| P4 (0,9;0,5) | | 2.68 | 2.68 | 2.68 | 2.68 | 2.68 | 2.68 | 2.68 | 2.68 |
| P5 (0,5;0,5) | | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 |
| P6 (0,5;0,25) | | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 |
| P7 (0,25;0,25) | | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6314-C3 | 6212-C3 |
| Lubrication interval | 12000 h | 15000 h |
| Lubricant amount | 27 g | 13 g |
| Lubricant type | MOBIL POLYREX EM | |

Notes:

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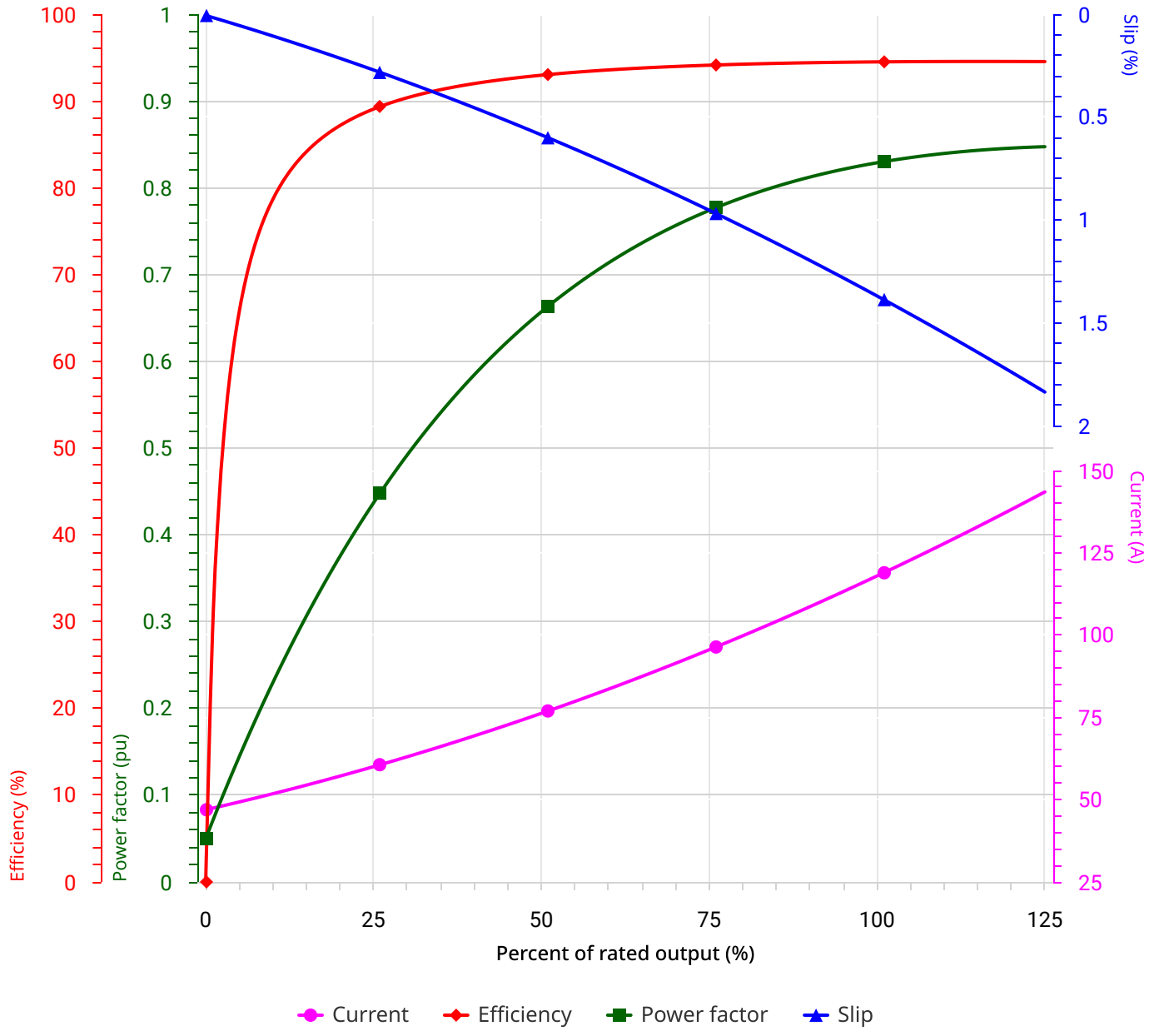
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 P-base - Nema Premium Efficiency |
| Product code | : 14562032 |




| | |
|---|---|
| Performance | : 50 HP (37 kW) 230/460V 60Hz 4P 326HP |

| | | | |
|---|---|---|---|
| Rated current | : 118/59.2 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 6.2 Code G | Duty cycle | : Cont.(S1) |
| Rated torque | : 20.4 kgfm | Insulation class | : F |
| Locked rotor torque | : 230 % | Service factor | : 1.25 |
| Breakdown torque | : 270 % | Temperature rise | : 80 K |
| Rated speed | : 1775 rpm | Design | : B |

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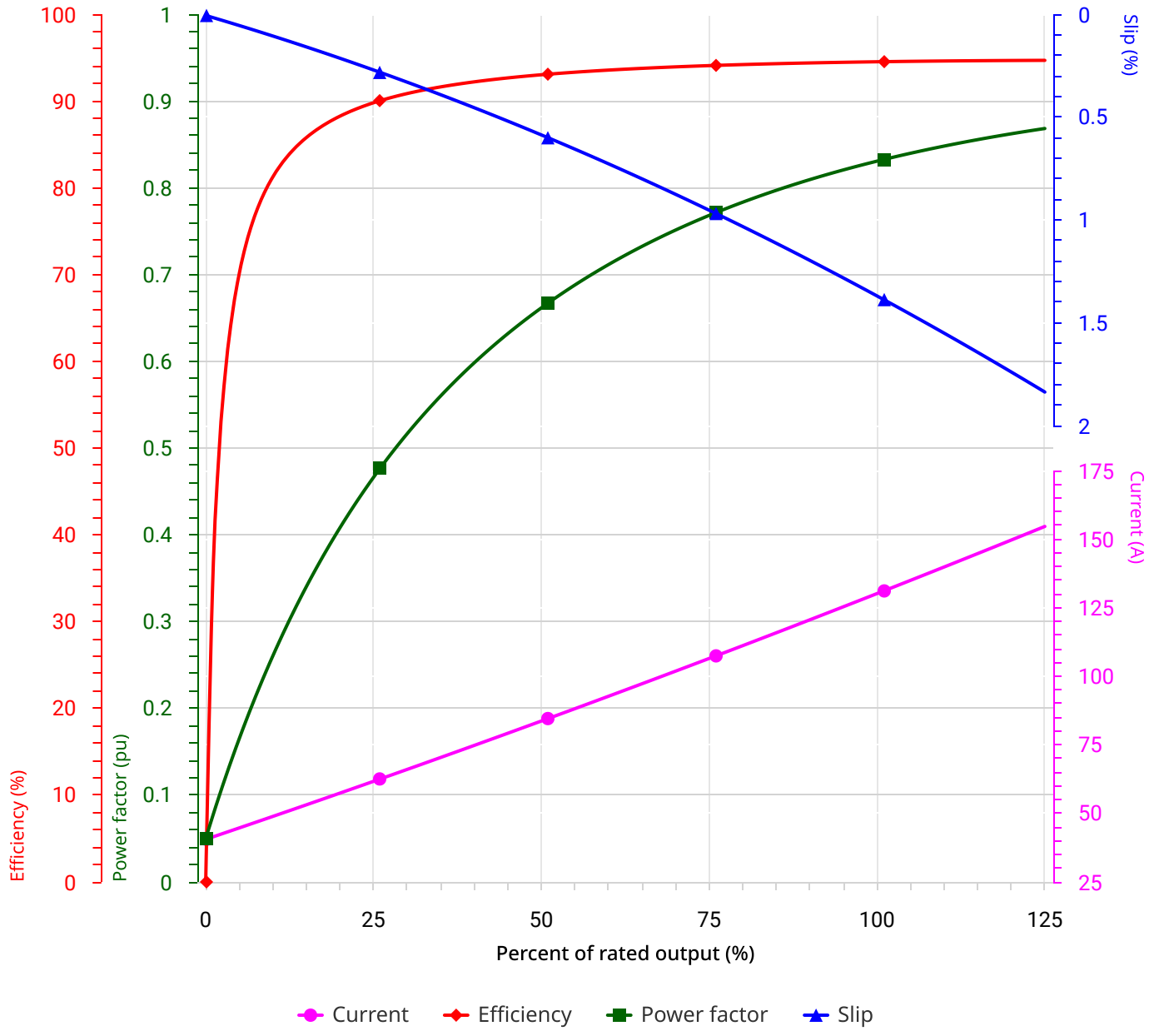
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 P-base - Nema Premium Efficiency |
| Product code | : 14562032 |




| | |
|---|---|
| Performance | : 50 HP (37 kW) 208V 60Hz 4P 326HP |

| | | | |
|---|---|---|---|
| Rated current | : 131 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 6.2 Code G | Duty cycle | : Cont.(S1) |
| Rated torque | : 20.0 kgfm | Insulation class | : F |
| Locked rotor torque | : 225 % | Service factor | : 1.25 |
| Breakdown torque | : 270 % | Temperature rise | : 80 K |
| Rated speed | : 1775 rpm | Design | : 00002 |

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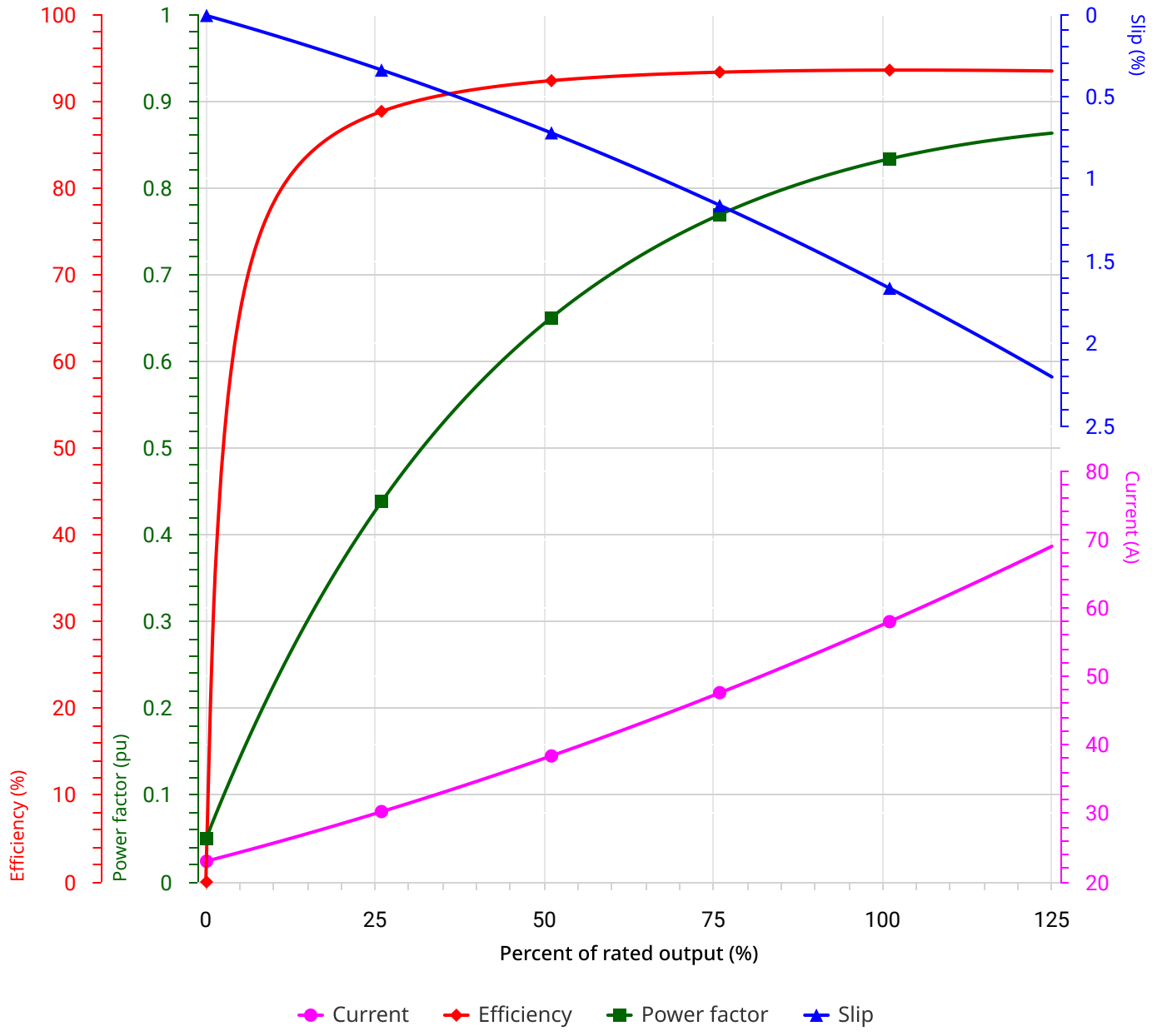
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 P-base - Nema Premium Efficiency |
| Product code | : 14562032 |




| | |
|---|---|
| Performance | : 40 HP (30 kW) 380V 50Hz 4P 326HP |

| | | | |
|---|---|---|---|
| Rated current | : 58.7 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 6.4 Code G | Duty cycle | : Cont.(S1) |
| Rated torque | : 19.7 kgfm | Insulation class | : F |
| Locked rotor torque | : 230 % | Service factor | : 1.00 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 1475 rpm | Design | : B |

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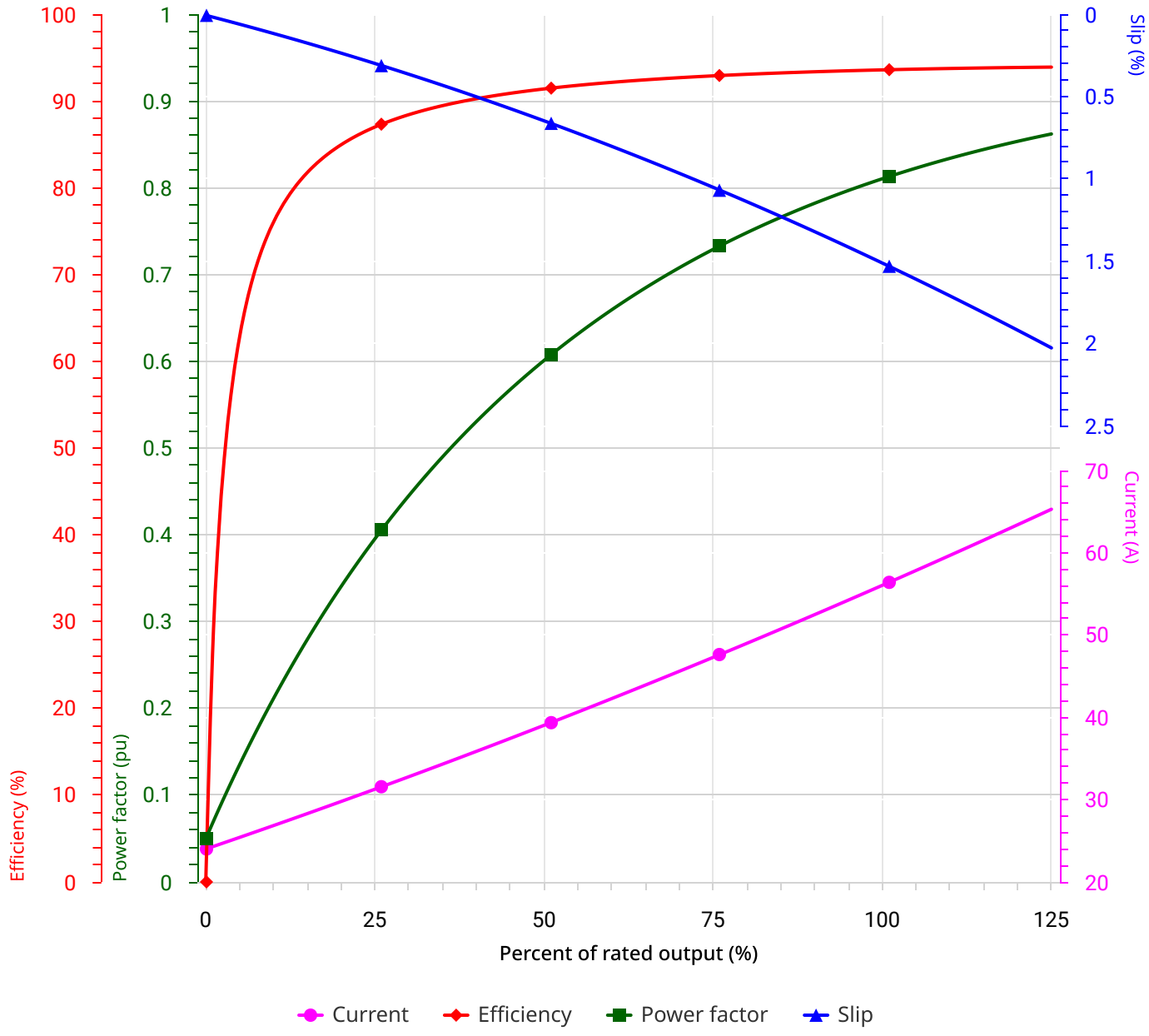
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 P-base - Nema Premium Efficiency |
| Product code | : 14562032 |




| | |
|---|---|
| Performance | : 40 HP (30 kW) 400V 50Hz 4P 326HP |

| | | | |
|---|---|---|---|
| Rated current | : 57.1 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 7.0 Code H | Duty cycle | : Cont.(S1) |
| Rated torque | : 19.7 kgfm | Insulation class | : F |
| Locked rotor torque | : 250 % | Service factor | : 1.00 |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 1477 rpm | Design | : B |

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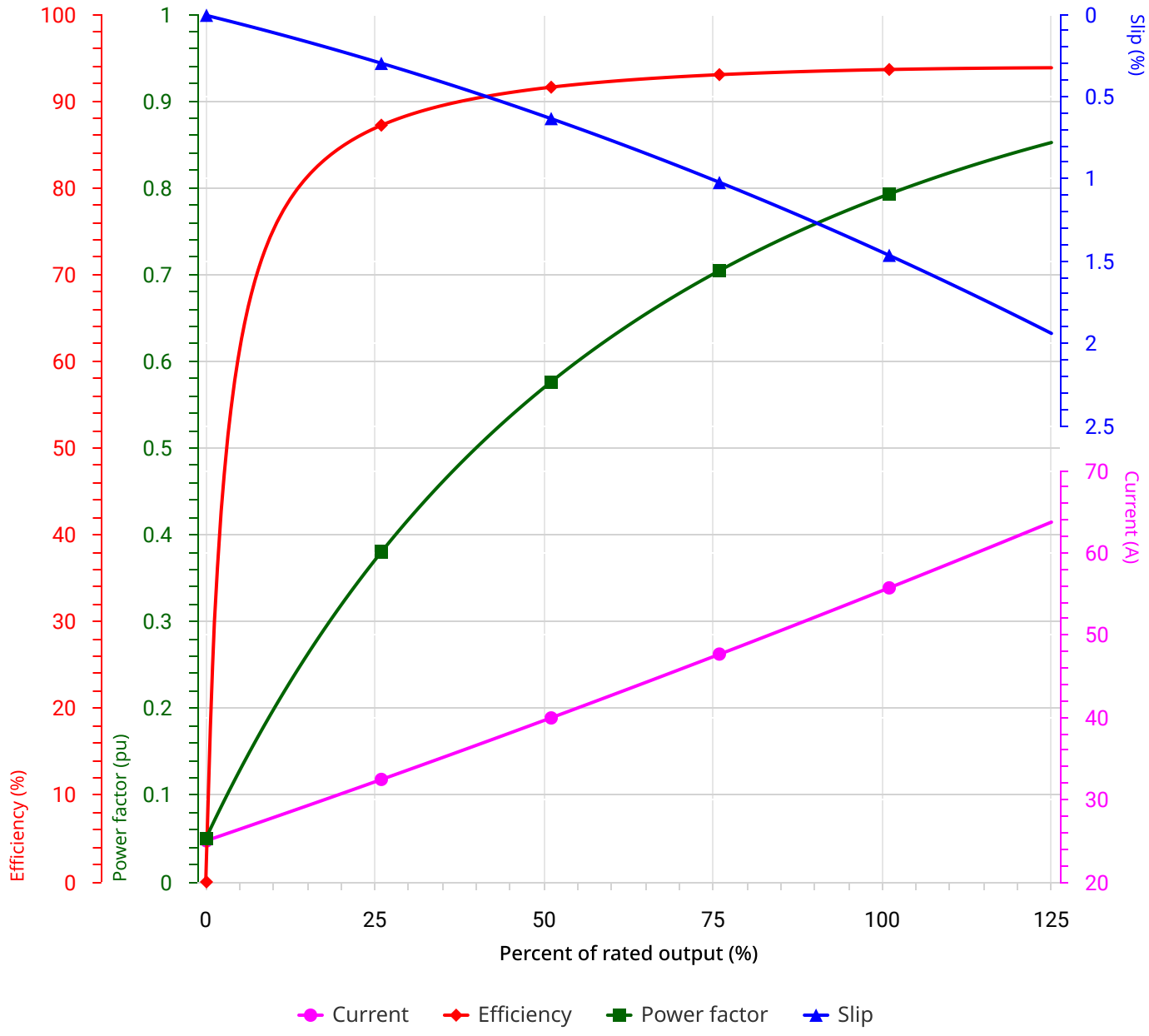
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 P-base - Nema Premium Efficiency |
| Product code | : 14562032 |




| | |
|---|---|
| Performance | : 40 HP (30 kW) 415V 50Hz 4P 326HP |

| | | | |
|---|---|---|---|
| Rated current | : 56.4 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 7.4 Code J | Duty cycle | : Cont.(S1) |
| Rated torque | : 19.6 kgfm | Insulation class | : F |
| Locked rotor torque | : 260 % | Service factor | : 1.00 |
| Breakdown torque | : 330 % | Temperature rise | : 80 K |
| Rated speed | : 1478 rpm | Design | : B |

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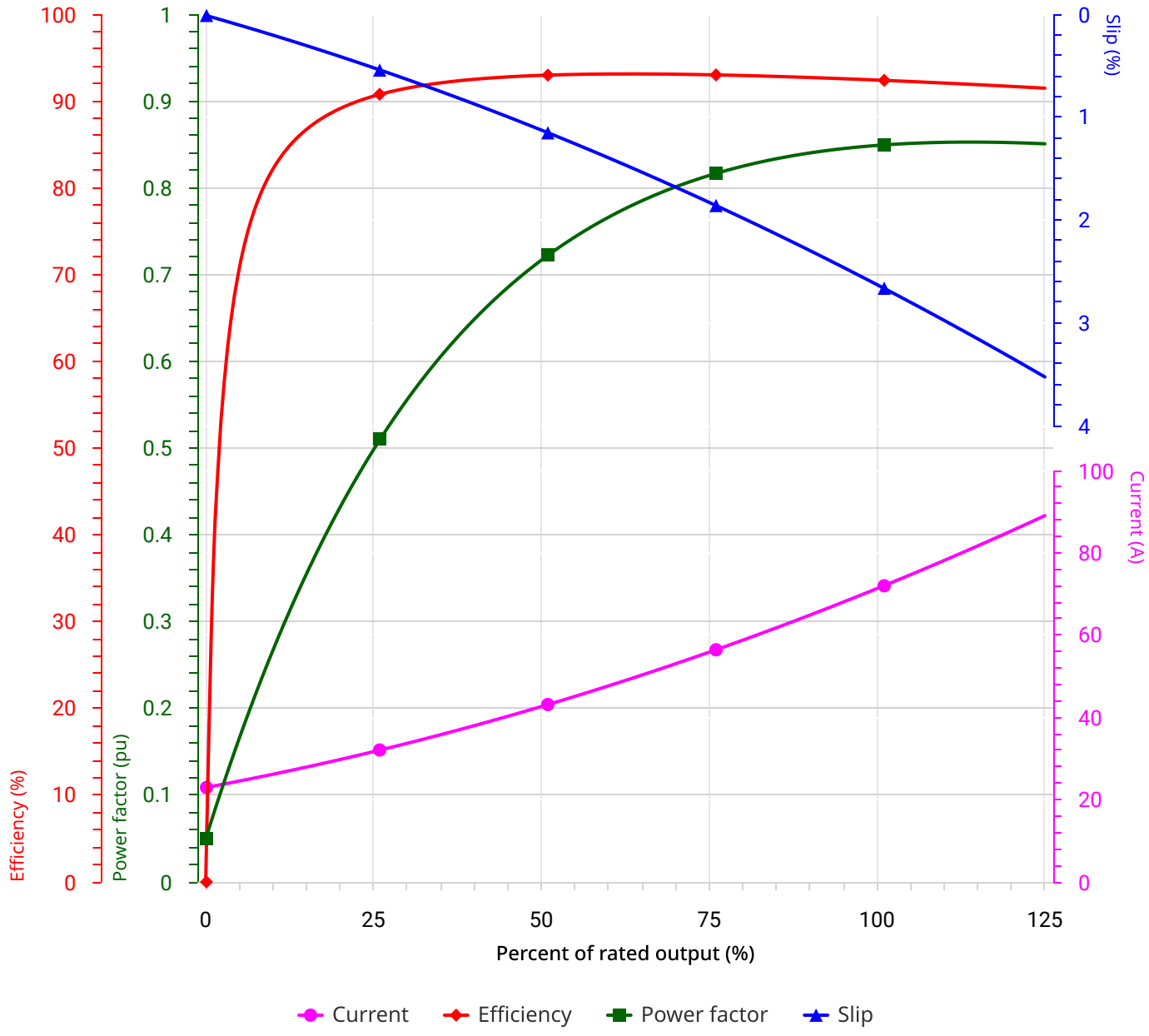
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 P-base - Nema Premium Efficiency |
| Product code | : 14562032 |




| | |
|---|---|
| Performance | : 50 HP (37 kW) 380V 50Hz 4P 326HP |

| | | | |
|---|---|---|---|
| Rated current | : 71.6 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 5.2 Code E | Duty cycle | : Cont.(S1) |
| Rated torque | : 24.9 kgfm | Insulation class | : F |
| Locked rotor torque | : 180 % | Service factor | : 1.00 |
| Breakdown torque | : 200 % | Temperature rise | : 105 K |
| Rated speed | : 1460 rpm | Design | : B |

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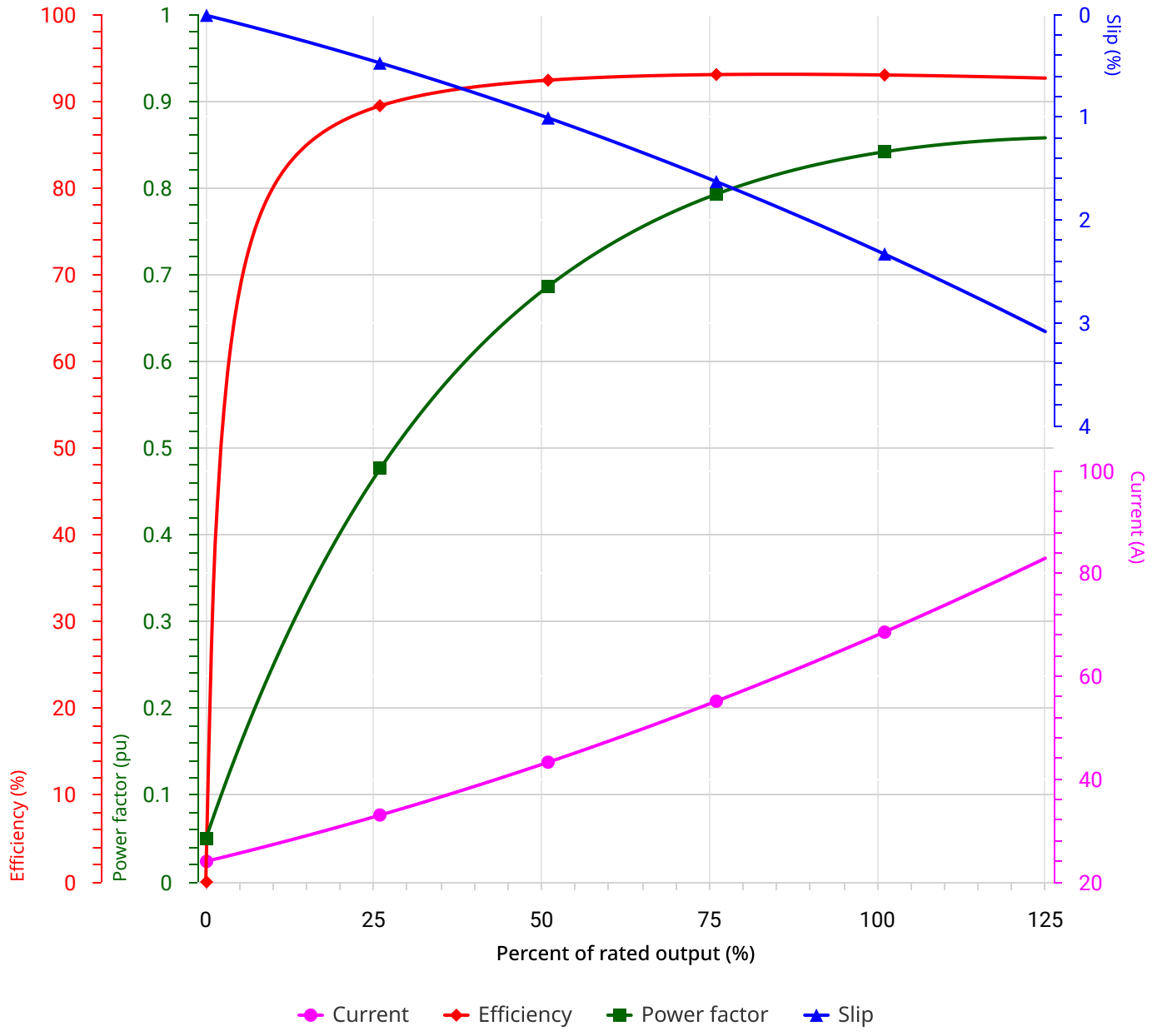
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 P-base - Nema Premium Efficiency |
| Product code | : 14562032 |




| | |
|---|---|
| Performance | : 50 HP (37 kW) 400V 50Hz 4P 326HP |

| | | | |
|---|---|---|---|
| Rated current | : 68.4 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 5.8 Code F | Duty cycle | : Cont.(S1) |
| Rated torque | : 24.8 kgfm | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.00 |
| Breakdown torque | : 240 % | Temperature rise | : 105 K |
| Rated speed | : 1465 rpm | Design | : B |

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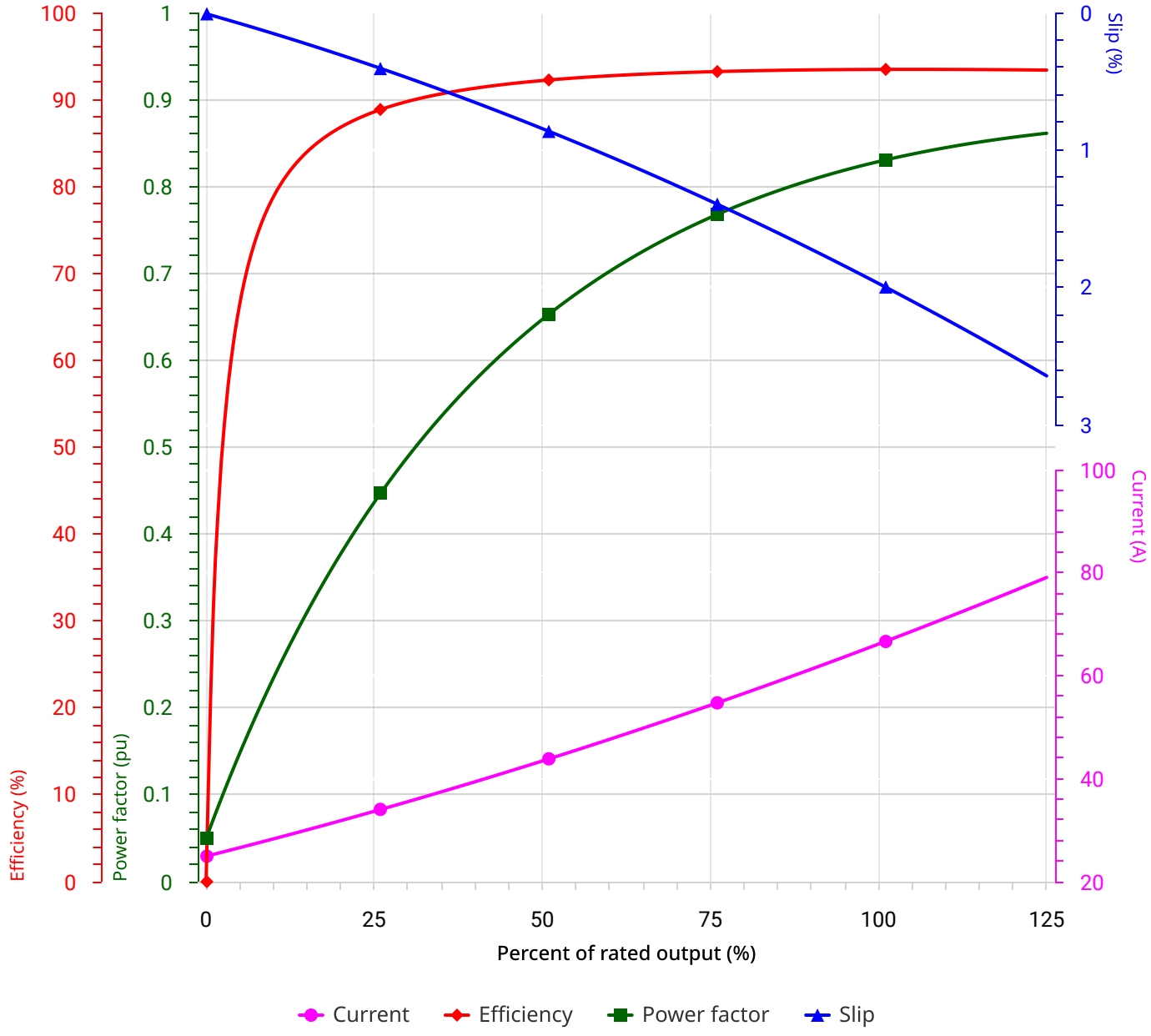
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 P-base - Nema Premium Efficiency |
| Product code | : 14562032 |




| | |
|---|---|
| Performance | : 50 HP (37 kW) 415V 50Hz 4P 326HP |

| | | | |
|---|---|---|---|
| Rated current | : 66.3 A | Moment of inertia (J) | : 0.3861 kgm² |
| LRC | : 6.2 Code G | Duty cycle | : Cont.(S1) |
| Rated torque | : 24.7 kgfm | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
| Breakdown torque | : 260 % | Temperature rise | : 105 K |
| Rated speed | : 1470 rpm | Design | : B |

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