# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

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

| | |
|---|---|
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 13025328 |

| | | | |
|---|---|---|---|
| Frame | : 444/5TSC | Cooling method | : IC411 - TEFC |
| Insulation class | : F | Mounting | : B34R(D) |
| Duty cycle | : S1 | Rotation | : Both |
| Ambient temperature | : -20 °C to +40 °C | Starting method | : Direct On Line |
| Altitude | : 1000 m | Approx. weight | : 775 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 1.65 kgm² |
| Design | : B | | |

| Output | | 150 HP (110 | 150 HP (110 | 125 HP (90 | 125 HP (90 | 125 HP (90 | 150 HP (110 | 150 HP (110 | 150 HP (110 |
|---|---|---|---|---|---|---|---|---|---|
| Poles | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 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 | | 327/163 A | 356 A | 162 A | 154 A | 148 A | 200 A | 189 A | 182 A |
| L. R. Amperes | | 2286/1143 A | 2492 A | 1084 A | 1183 A | 1259 A | 1098 A | 1133 A | 1183 A |
| LRC | | 7.0 Code G | 7.0 Code G | 6.7 Code G | 7.7 Code H | 8.5 Code J | 5.5 Code E | 6.0 Code F | 6.5 Code G |
| No load current | | 73.0/36.5 A | 62.9 A | 36.0 A | 38.5 A | 40.5 A | 36.0 A | 38.5 A | 40.5 A |
| Rated speed | | 3575 rpm | 3575 rpm | 2975 rpm | 2980 rpm | 2980 rpm | 2965 rpm | 2970 rpm | 2970 rpm |
| Slip | | 0.69 % | 0.69 % | 0.83 % | 0.67 % | 0.67 % | 1.17 % | 1.00 % | 1.00 % |
| Rated torque | | 30.5 kgfm | 30.0 kgfm | 30.5 kgfm | 30.4 kgfm | 30.4 kgfm | 36.7 kgfm | 36.7 kgfm | 36.7 kgfm |
| Locked rotor torque | | 180 % | 180 % | 170 % | 190 % | 210 % | 140 % | 160 % | 180 % |
| Breakdown torque | | 240 % | 240 % | 240 % | 260 % | 290 % | 200 % | 220 % | 240 % |
| Service factor | | 240 % | 1.15 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Temperature rise | | 1.15 | 80 K | 80 K | 80 K | 80 K | 95 K | 95 K | 80 K |
| Noise level | | 80 K | 81.0 dB(A) | 77 dB(A) | 77 dB(A) | 77 dB(A) | 77 dB(A) | 77 dB(A) | 77 dB(A) |
| Locked rotor time | | 81 dB(A) | 22 s (hot) 40 s (cold) | 17 s (hot) 31 s (cold) | 17 s (hot) 31 s (cold) | 17 s (hot) 31 s (cold) | 17 s (hot) 31 s (cold) | 17 s (hot) 31 s (cold) | 17 s (hot) 31 s (cold) |
| | | 22 s (hot) 40 s (cold) | | | | | | | |
| Efficiency (%) | 50% | 94.1 | 94.1 | 93.7 | 94.1 | 94.1 | 94.1 | 94.5 | 94.5 |
| | 75% | 95.0 | 95.0 | 94.4 | 94.9 | 94.9 | 94.5 | 95.0 | 95.0 |
| | 100% | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 94.1 | 94.5 | 94.5 |
| Power Factor | Start | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| | 50% | 0.83 | 0.83 | 0.81 | 0.79 | 0.77 | 0.86 | 0.84 | 0.83 |
| | 75% | 0.88 | 0.88 | 0.88 | 0.87 | 0.86 | 0.89 | 0.89 | 0.88 |
| | 100% | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | | | | | |
| P1 (0,9;1,0) | | 5.19 | 5.19 | 5.19 | 5.19 | 5.19 | 6.19 | 5.74 | 5.74 |
| P2 (0,5;1,0) | | 3.41 | 3.41 | 3.41 | 3.41 | 3.41 | 4.06 | 3.77 | 3.77 |
| P3 (0,25;1,0) | | 2.70 | 2.70 | 2.70 | 2.70 | 2.70 | 3.22 | 2.99 | 2.99 |
| P4 (0,9;0,5) | | 3.34 | 3.34 | 3.34 | 3.34 | 3.34 | 3.97 | 3.69 | 3.69 |
| P5 (0,5;0,5) | | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 2.01 | 1.87 | 1.87 |
| P6 (0,5;0,25) | | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.53 | 1.42 | 1.42 |
| P7 (0,25;0,25) | | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.72 | 0.67 | 0.67 |

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6314-C3 | 6314-C3 |
| Lubrication interval | 4000 h | 4000 h |
| Lubricant amount | 27 g | 27 g |
| Lubricant type | MOBIL POLYREX EM | |

| | |
|---|---|
| Foundation loads | |
| Max. traction | : 375 kgf |
| Max. compression | : 1150 kgf |

Notes:

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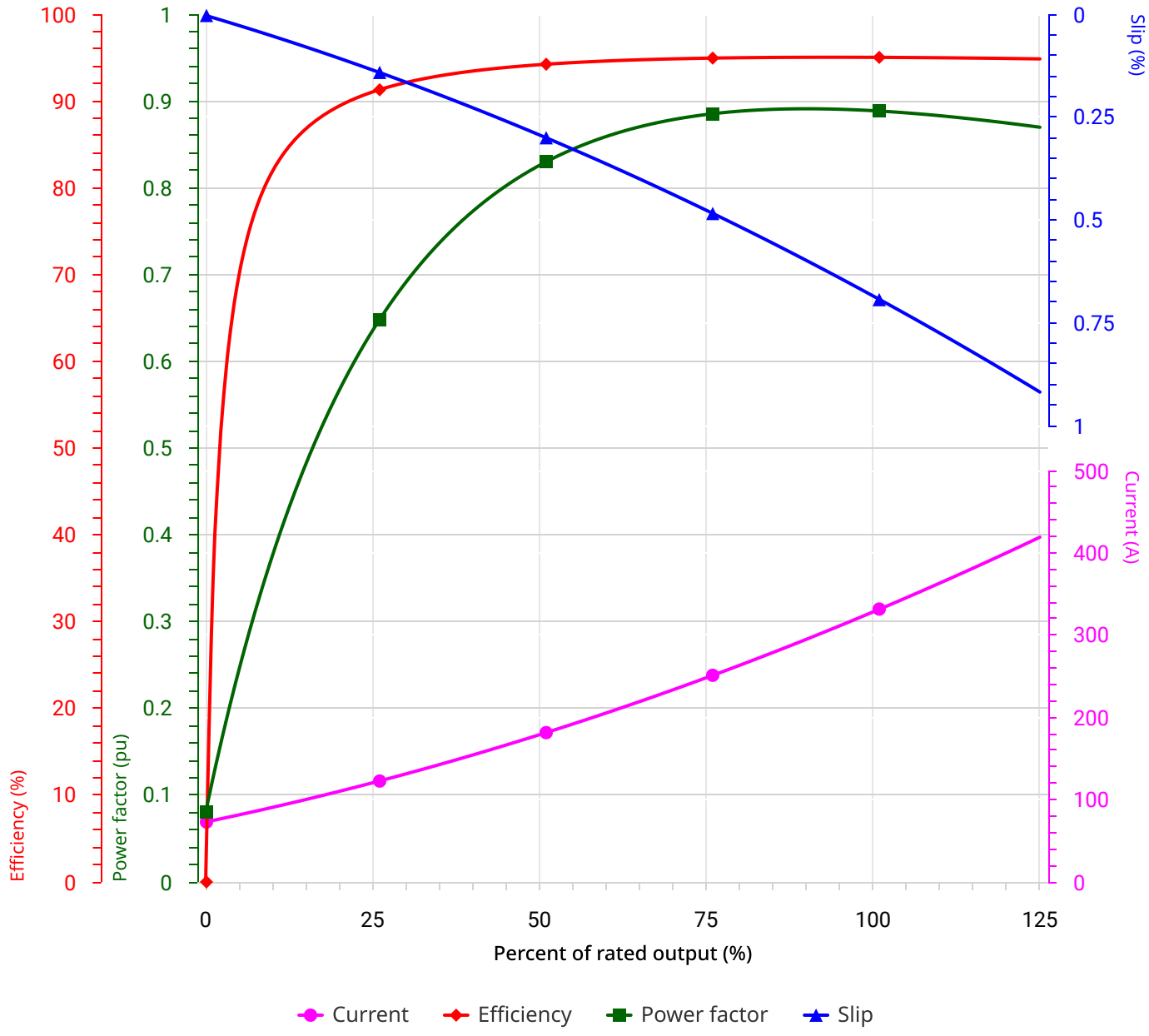
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 13025328 |




| | |
|---|---|
| Performance | : 150 HP (110 kW) 230/460V 60Hz 2P 444/5TSC |

| | | | |
|---|---|---|---|
| Rated current | : 327/163 A | Moment of inertia (J) | : 1.65 kgm² |
| LRC | : 7.0 Code G | Duty cycle | : Cont.(S1) |
| Rated torque | : 30.5 kgfm | Insulation class | : F |
| Locked rotor torque | : 180 % | Service factor | : 1.15 |
| Breakdown torque | : 240 % | Temperature rise | : 80 K |
| Rated speed | : 3575 rpm | Design | : B |

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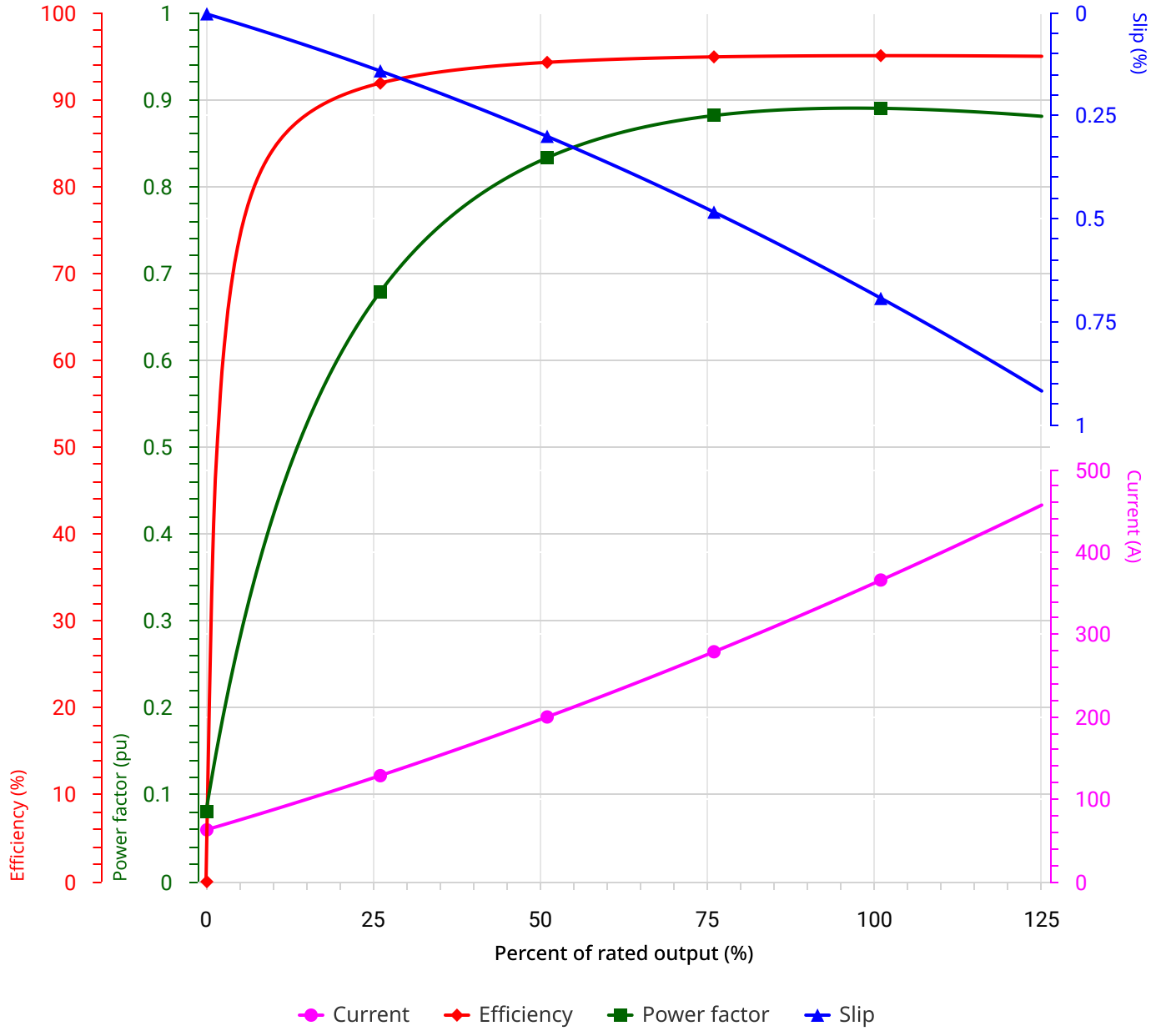
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 13025328 |




| | |
|---|---|
| Performance | : 150 HP (110 kW) 208V 60Hz 2P 444/5TSC |

| | | | |
|---|---|---|---|
| Rated current | : 356 A | Moment of inertia (J) | : 1.65 kgm² |
| LRC | : 7.0 Code G | Duty cycle | : Cont.(S1) |
| Rated torque | : 30.0 kgfm | Insulation class | : F |
| Locked rotor torque | : 180 % | Service factor | : 1.15 |
| Breakdown torque | : 240 % | Temperature rise | : 80 K |
| Rated speed | : 3575 rpm | Design | : 00002 |

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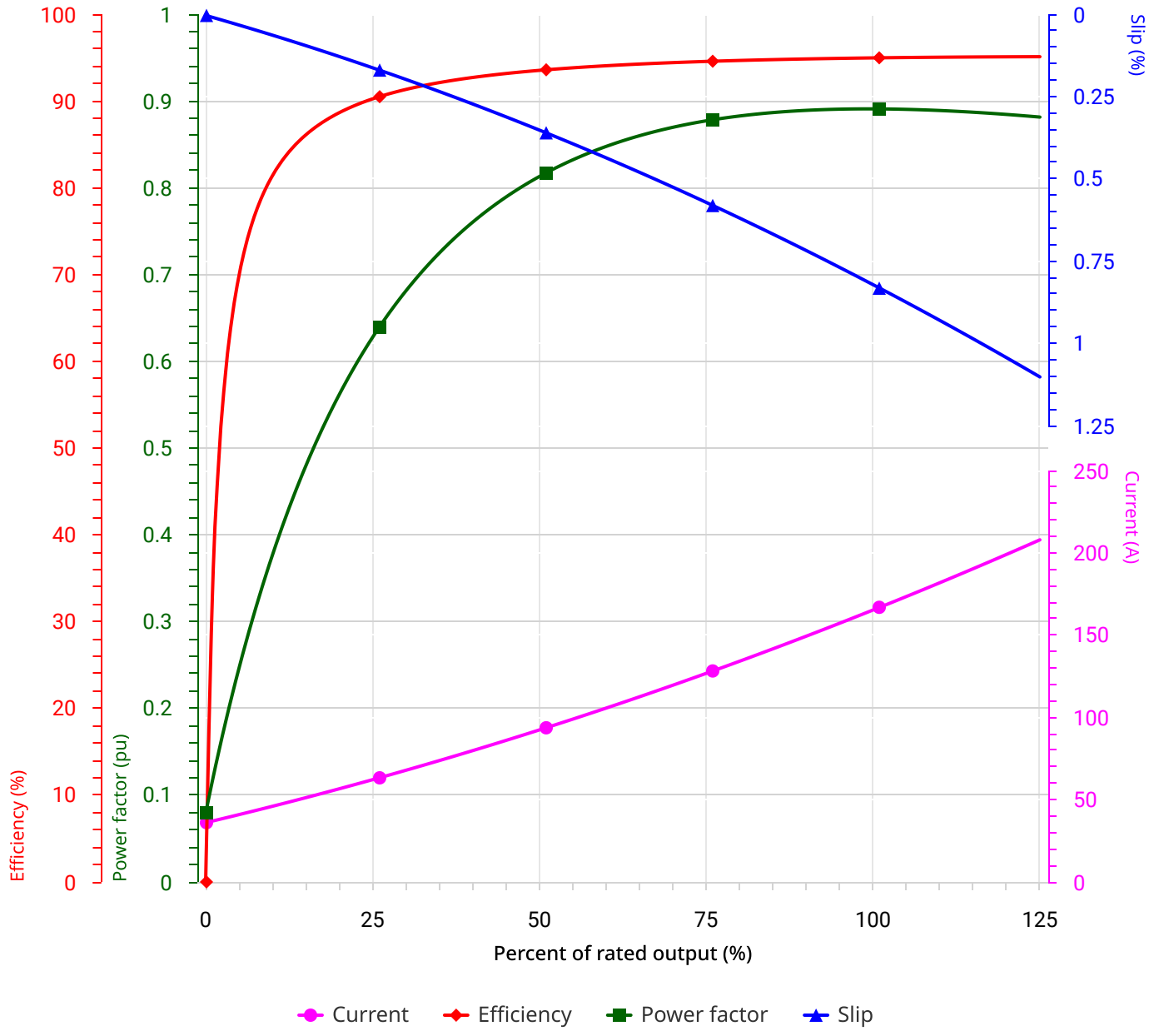
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 13025328 |




| | |
|---|---|
| Performance | : 125 HP (90 kW) 380V 50Hz 2P 444/5TSC |

| | | | |
|---|---|---|---|
| Rated current | : 162 A | Moment of inertia (J) | : 1.65 kgm² |
| LRC | : 6.7 Code G | Duty cycle | : Cont.(S1) |
| Rated torque | : 30.5 kgfm | Insulation class | : F |
| Locked rotor torque | : 170 % | Service factor | : 1.00 |
| Breakdown torque | : 240 % | Temperature rise | : 80 K |
| Rated speed | : 2975 rpm | Design | : B |

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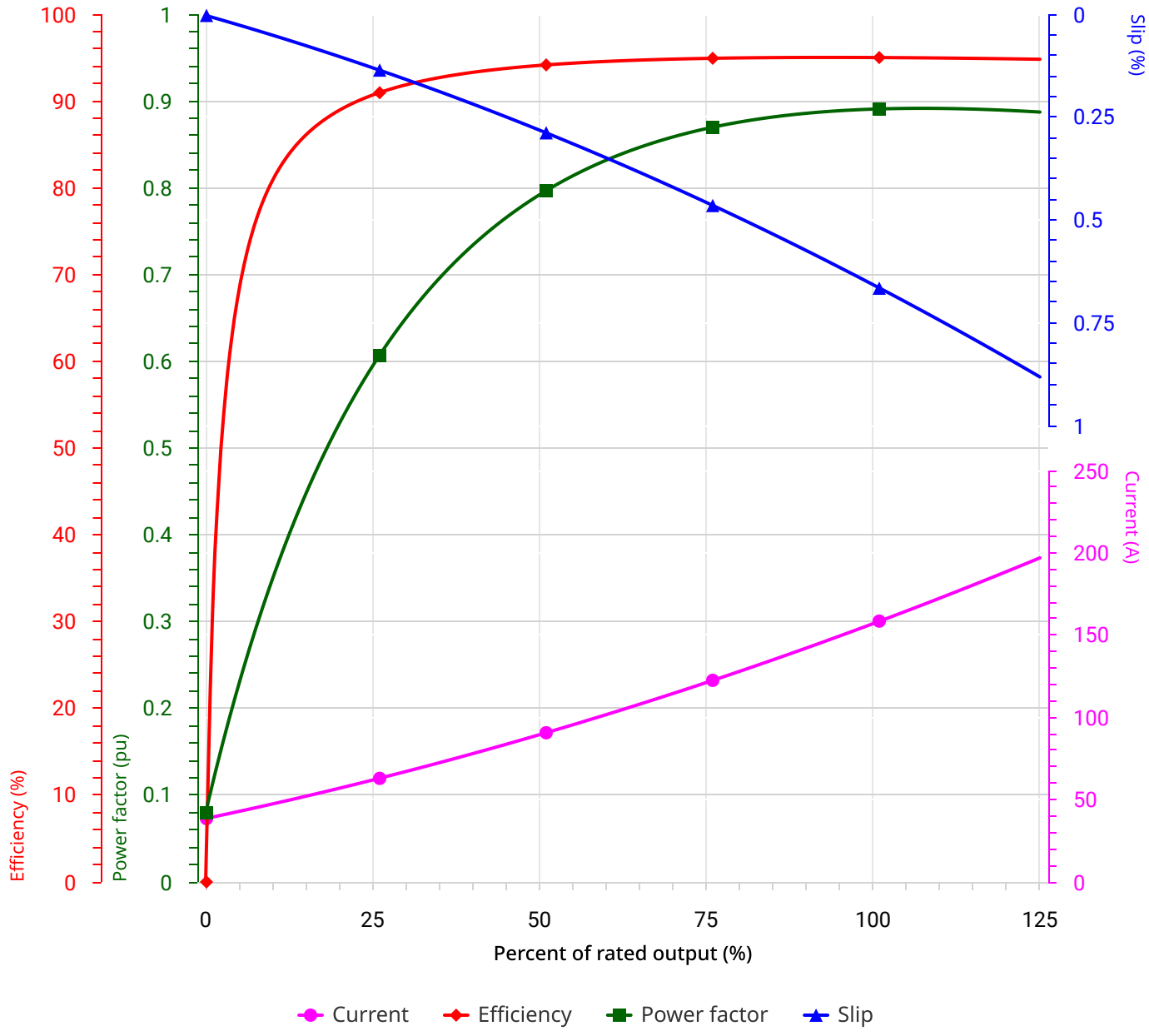
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 13025328 |




| | |
|---|---|
| Performance | : 125 HP (90 kW) 400V 50Hz 2P 444/5TSC |

| | | | |
|---|---|---|---|
| Rated current | : 154 A | Moment of inertia (J) | : 1.65 kgm² |
| LRC | : 7.7 Code H | Duty cycle | : Cont.(S1) |
| Rated torque | : 30.4 kgfm | Insulation class | : F |
| Locked rotor torque | : 190 % | Service factor | : 1.00 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 2980 rpm | Design | : B |

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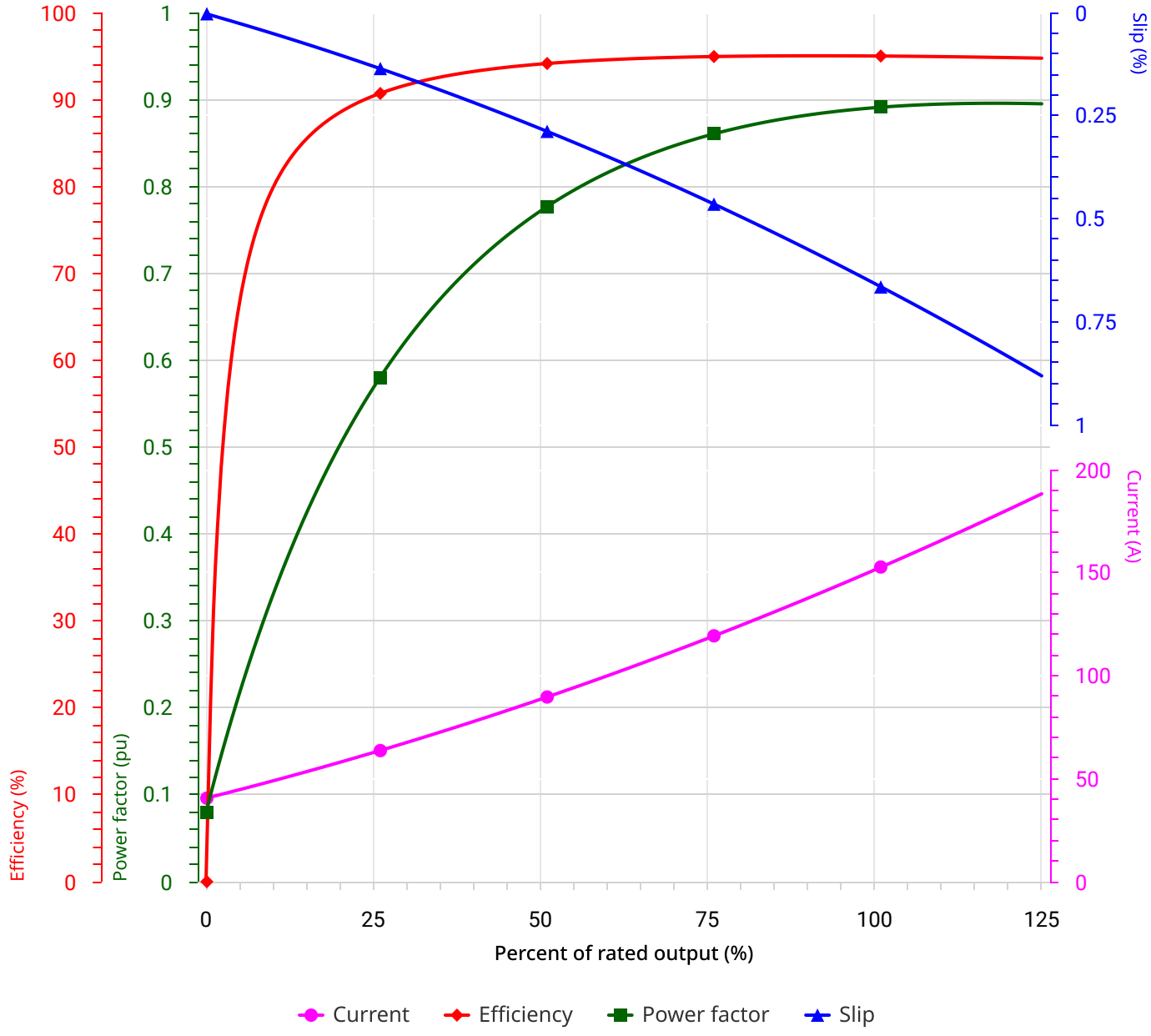
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 13025328 |




| | | | |
|---|---|---|---|
| Performance | : 125 HP (90 kW) 415V 50Hz 2P 444/5TSC | | |
| Rated current | : 148 A | Moment of inertia (J) | : 1.65 kgm² |
| LRC | : 8.5 Code J | Duty cycle | : Cont.(S1) |
| Rated torque | : 30.4 kgfm | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
| Breakdown torque | : 290 % | Temperature rise | : 80 K |
| Rated speed | : 2980 rpm | Design | : B |

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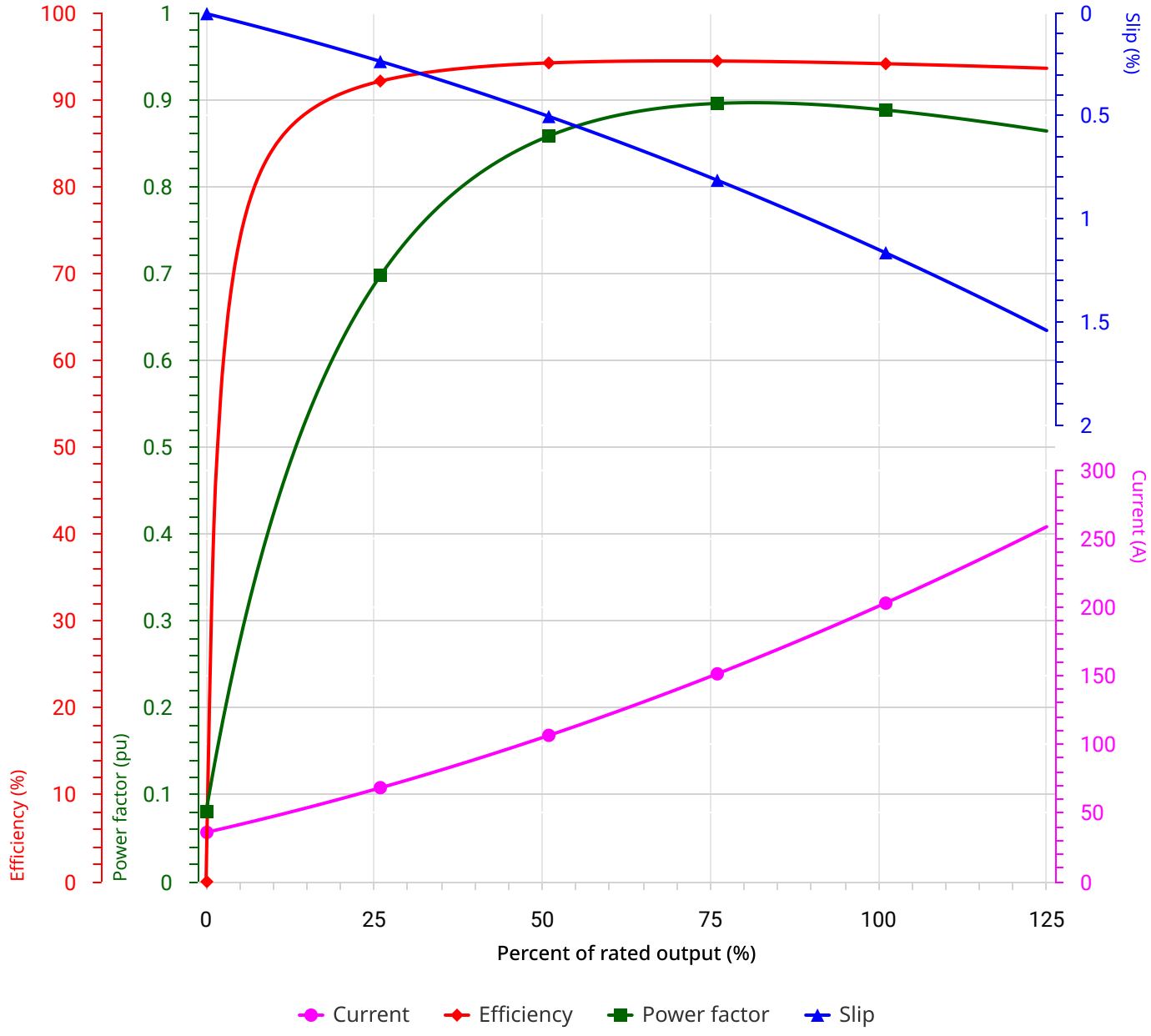
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| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 13025328 |




| | |
|---|---|
| Performance | : 150 HP (110 kW) 380V 50Hz 2P 444/5TSC |

| | | | |
|---|---|---|---|
| Rated current | : 200 A | Moment of inertia (J) | : 1.65 kgm² |
| LRC | : 5.5 Code E | Duty cycle | : Cont.(S1) |
| Rated torque | : 36.7 kgfm | Insulation class | : F |
| Locked rotor torque | : 140 % | Service factor | : 1.00 |
| Breakdown torque | : 200 % | Temperature rise | : 95 K |
| Rated speed | : 2965 rpm | Design | : B |

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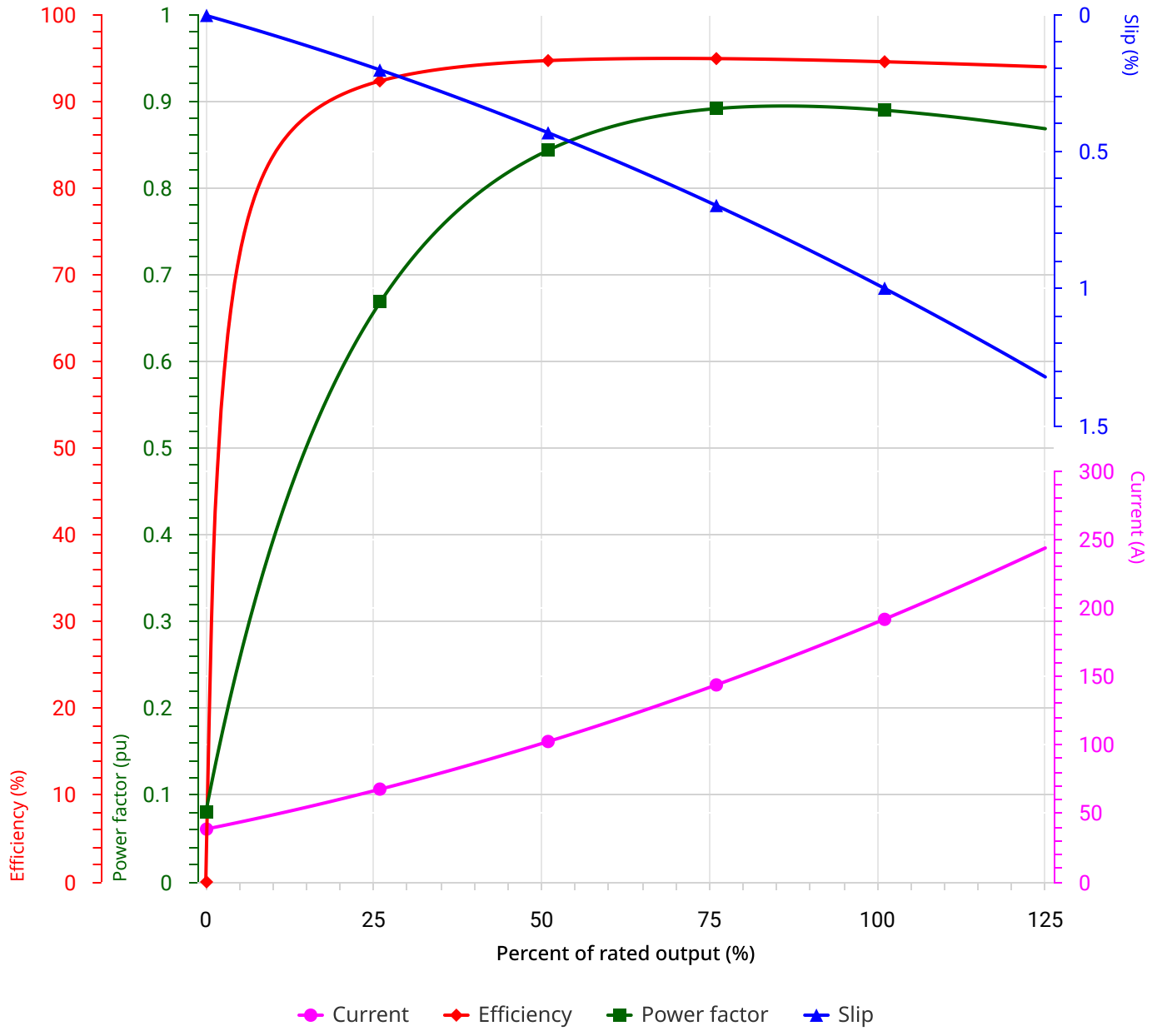
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 13025328 |




| | |
|---|---|
| Performance | : 150 HP (110 kW) 400V 50Hz 2P 444/5TSC |

| | | | |
|---|---|---|---|
| Rated current | : 189 A | Moment of inertia (J) | : 1.65 kgm² |
| LRC | : 6.0 Code F | Duty cycle | : Cont.(S1) |
| Rated torque | : 36.7 kgfm | Insulation class | : F |
| Locked rotor torque | : 160 % | Service factor | : 1.00 |
| Breakdown torque | : 220 % | Temperature rise | : 95 K |
| Rated speed | : 2970 rpm | Design | : B |

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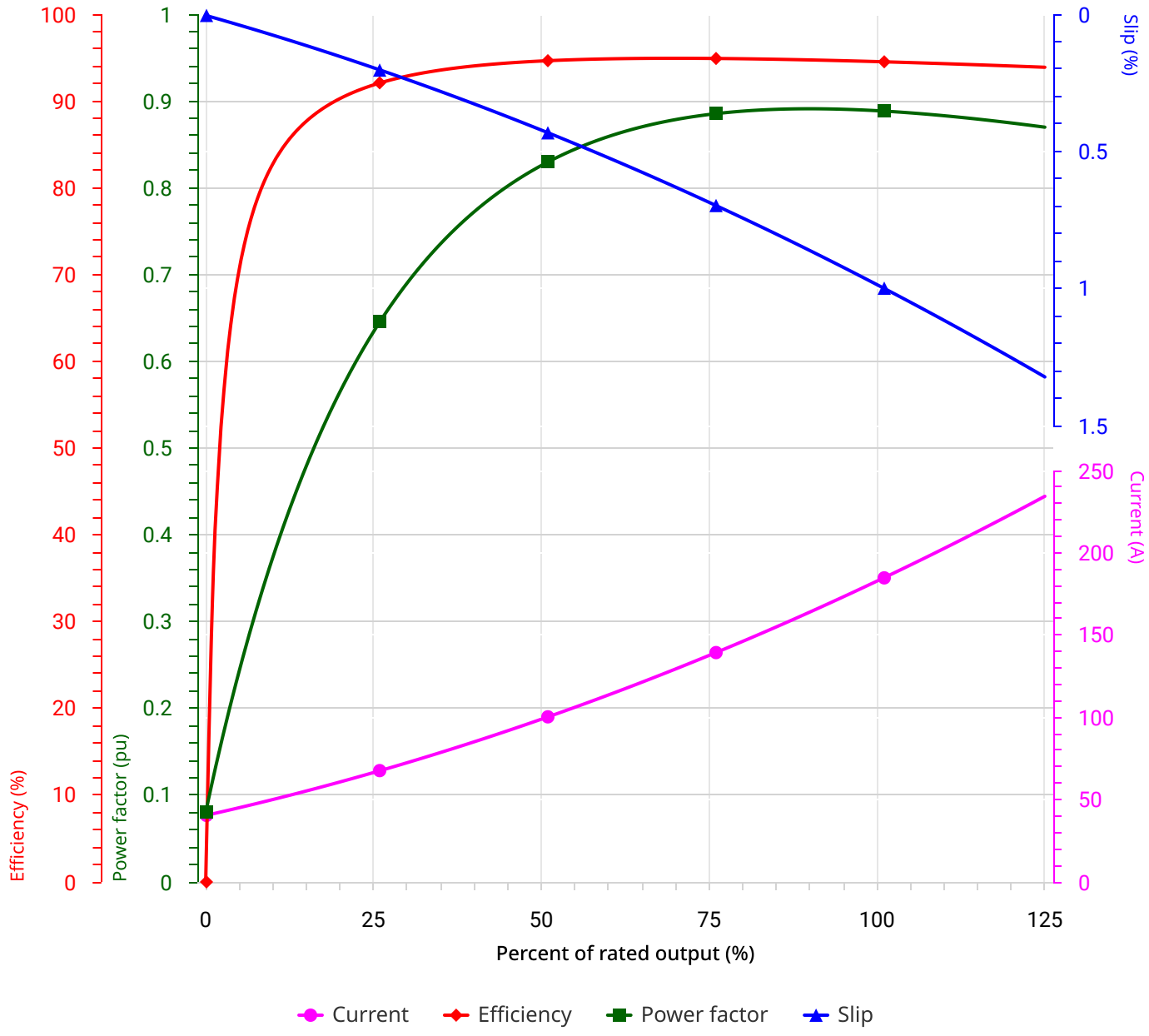
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|---|---|
| Customer | : |
| Product line | : W22 - Nema Premium Efficiency (Derating) |
| Product code | : 13025328 |




| | |
|---|---|
| Performance | : 150 HP (110 kW) 415V 50Hz 2P 444/5TSC |

| | | | |
|---|---|---|---|
| Rated current | : 182 A | Moment of inertia (J) | : 1.65 kgm² |
| LRC | : 6.5 Code G | Duty cycle | : Cont.(S1) |
| Rated torque | : 36.7 kgfm | Insulation class | : F |
| Locked rotor torque | : 180 % | Service factor | : 1.00 |
| Breakdown torque | : 240 % | Temperature rise | : 80 K |
| Rated speed | : 2970 rpm | Design | : B |

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