**DATA SHEET**

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W01 - TEFC - Nema Premium Efficiency JM Derating |
| Product code | : 14218459 |

| | | | |
|---|---|---|---|
| Frame | : 143/5JM | Cooling method | : IC411 - TEFC |
| Insulation class | : F | Mounting | : F-1/B34R(D) |
| Duty cycle | : S1 | Rotation | : Both |
| Ambient temperature | : -20 °C to +40 °C | Starting method | : Direct On Line |
| Altitude | : 1000 m | Approx. weight | : 21.8 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.007 kgm² |
| Design | : B | | |

| Output | | 3 HP (2.2 kW) | 2 HP (1.5 kW) | 2 HP (1.5 kW) | 2 HP (1.5 kW) |
|---|---|---|---|---|---|
| Poles | | 2 | 2 | 2 | 2 |
| Frequency | | 60 Hz | 50 Hz | 50 Hz | 50 Hz |
| Rated voltage | | 208-230/460 V | 190/380 V | 220 V | 220/415 V |
| Rated current | | 7.76-7.02/3.51 A | 5.90/2.95 A | 5.10 A | 5.38/2.85 A |
| L. R. Amperes | | 66.7/33.3 A | 64.3/32.2 A | 55.5 A | 67.7/35.9 A |
| LRC | | 9.5 Code K | 10.9 Code M | 10.9 Code M | 12.6 Code P |
| No load current | | 2.56/1.28 A | 2.52/1.26 A | 2.18 A | 2.72/1.44 A |
| Rated speed | | 3500 rpm | 2920 rpm | 2920 rpm | 2935 rpm |
| Slip | | 2.78 % | 2.67 % | 2.67 % | 2.17 % |
| Rated torque | | 0.622 kgfm | 0.497 kgfm | 0 kgfm | 0.495 kgfm |
| Locked rotor torque | | 300 % | 350 % | 350 % | 440 % |
| Breakdown torque | | 380 % | 430 % | 430 % | 520 % |
| Service factor | | 1.15 | 1.15 | 1.15 | 1.15 |
| Temperature rise | | 80 K | 80 K | 80 K | 80 K |
| Noise level | | 68 dB(A) | 65 dB(A) | 65.0 dB(A) | 65 dB(A) |
| Locked rotor time | | 10 s (hot) 18 s (cold) | 9 s (hot) 16 s (cold) | 9 s (hot) 16 s (cold) | 8 s (hot) 14 s (cold) |
| Efficiency (%) | 50% | 84.0 | 84.5 | 84.5 | 83.1 |
| | 75% | 86.5 | 86.6 | 86.6 | 86.2 |
| | 100% | 86.5 | 86.7 | 86.7 | 87.0 |
| Power Factor | Start | 0.67 | 0.72 | 0.72 | 0.73 |
| | 50% | 0.78 | 0.70 | 0.70 | 0.64 |
| | 75% | 0.87 | 0.82 | 0.82 | 0.77 |
| | 100% | 0.91 | 0.89 | 0.89 | 0.85 |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | |
| P1 (0,9;1,0) | | 14.45 | 14.21 | 14.21 | 16.87 |
| P2 (0,5;1,0) | | 10.79 | 10.61 | 10.61 | 12.02 |
| P3 (0,25;1,0) | | 9.91 | 9.74 | 9.74 | 10.33 |
| P4 (0,9;0,5) | | 8.04 | 7.91 | 7.91 | 8.46 |
| P5 (0,5;0,5) | | 4.37 | 4.29 | 4.29 | 4.60 |
| P6 (0,5;0,25) | | 2.95 | 2.90 | 2.90 | 2.93 |
| P7 (0,25;0,25) | | 1.68 | 1.65 | 1.65 | 1.66 |

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6206-ZZ | 6203-ZZ |
| Lubrication interval | - | - |
| Lubricant amount | - | - |
| Lubricant type | MOBIL POLYREX EM | |

Notes:

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

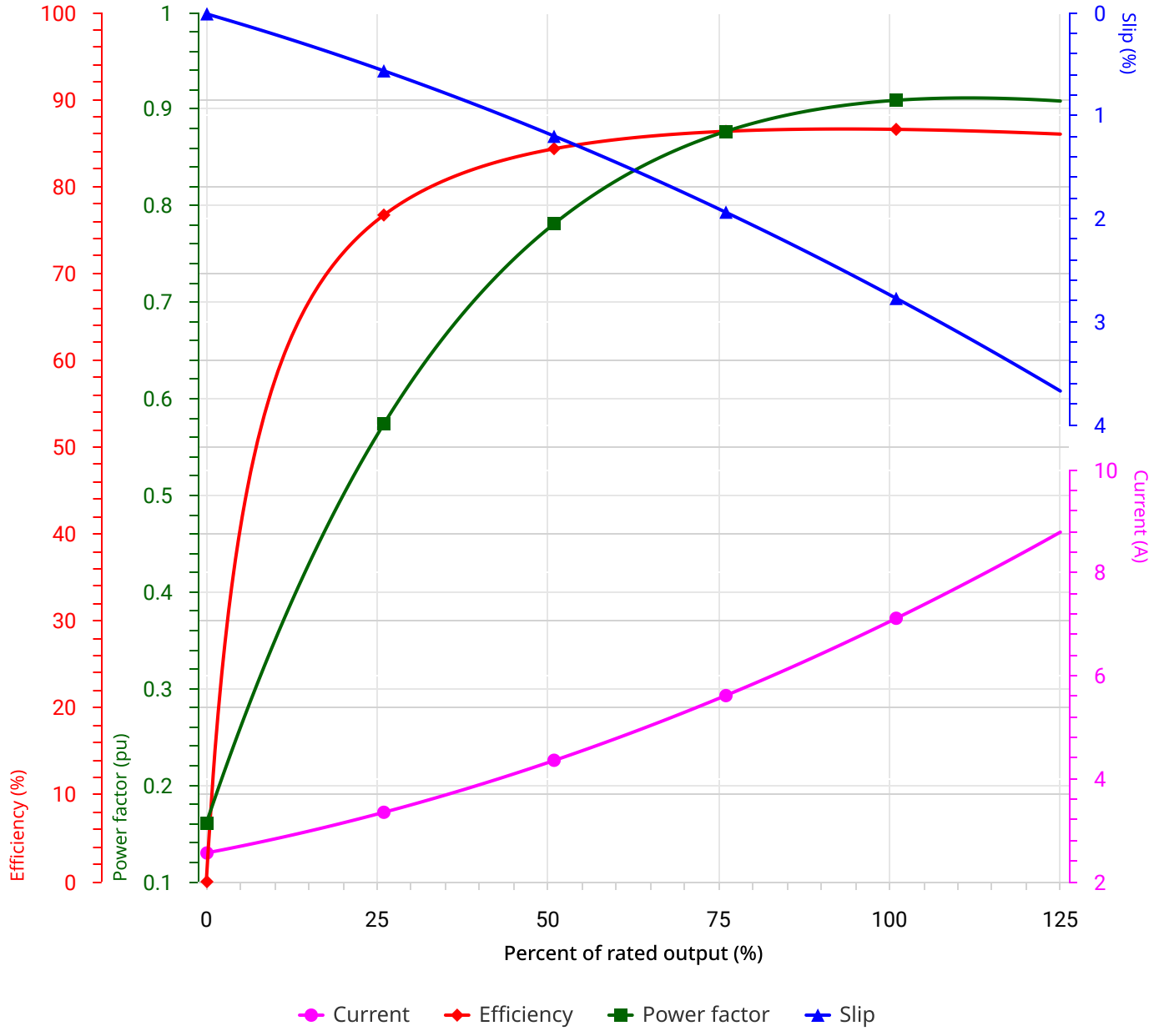
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W01 - TEFC - Nema Premium Efficiency JM Derating |
| Product code | : 14218459 |




| | |
|---|---|
| Performance | : 3 HP (2.2 kW) 208/230/460V 60Hz 2P 143/5JM |

| | | | |
|---|---|---|---|
| Rated current | : 7.76/7.02/3.51 A | Moment of inertia (J) | : 0.007 kgm² |
| LRC | : 9.5 Code K | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.622 kgfm | Insulation class | : F |
| Locked rotor torque | : 300 % | Service factor | : 1.15 |
| Breakdown torque | : 380 % | Temperature rise | : 80 K |
| Rated speed | : 3500 rpm | Design | : B |

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

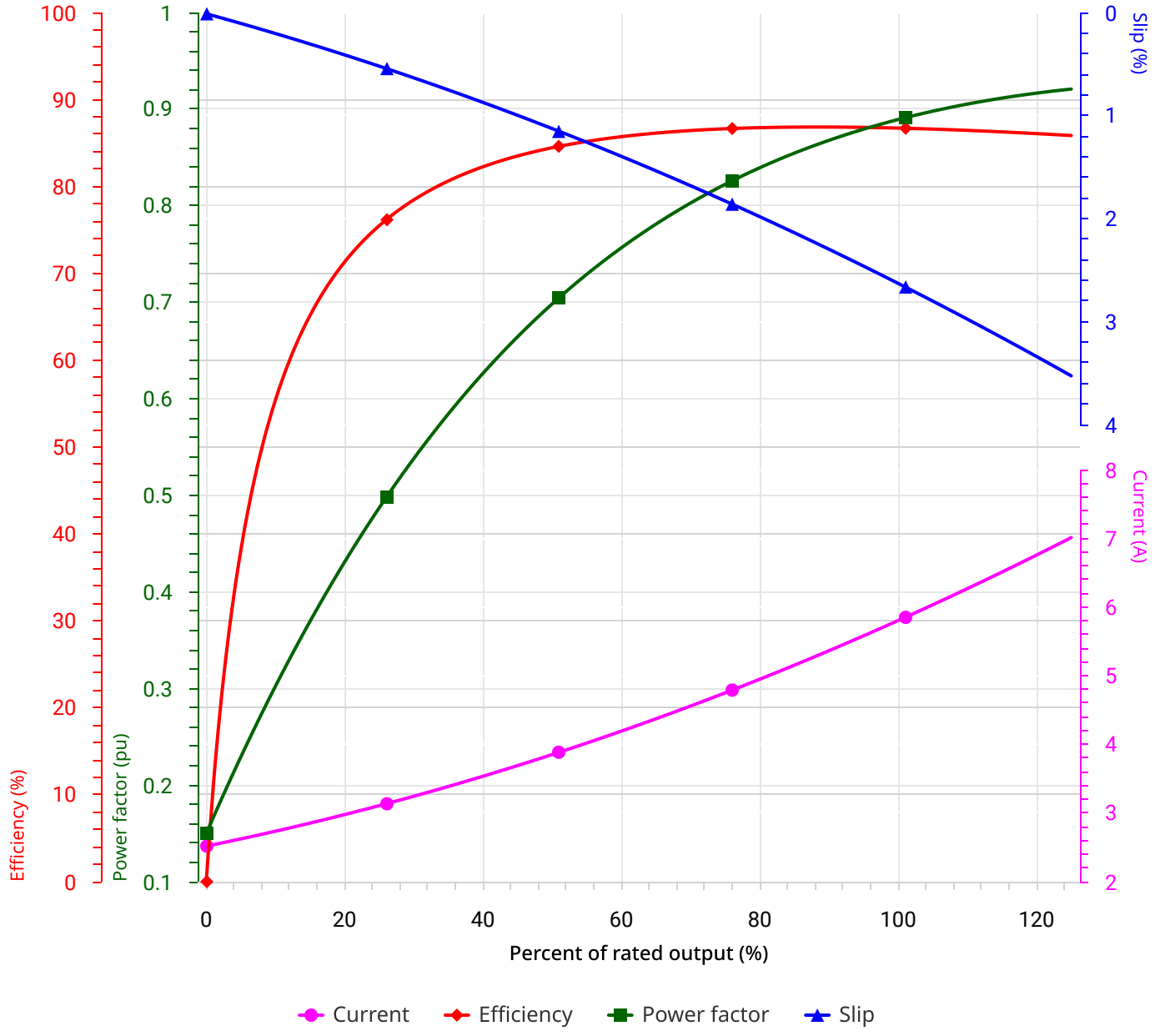
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W01 - TEFC - Nema Premium Efficiency JM Derating |
| Product code | : 14218459 |




| | |
|---|---|
| Performance | : 2 HP (1.5 kW) 190/380V 50Hz 2P 143/5JM |

| | | | |
|---|---|---|---|
| Rated current | : 5.90/2.95 A | Moment of inertia (J) | : 0.007 kgm² |
| LRC | : 10.9 Code M | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.497 kgfm | Insulation class | : F |
| Locked rotor torque | : 350 % | Service factor | : 1.15 |
| Breakdown torque | : 430 % | Temperature rise | : 80 K |
| Rated speed | : 2920 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
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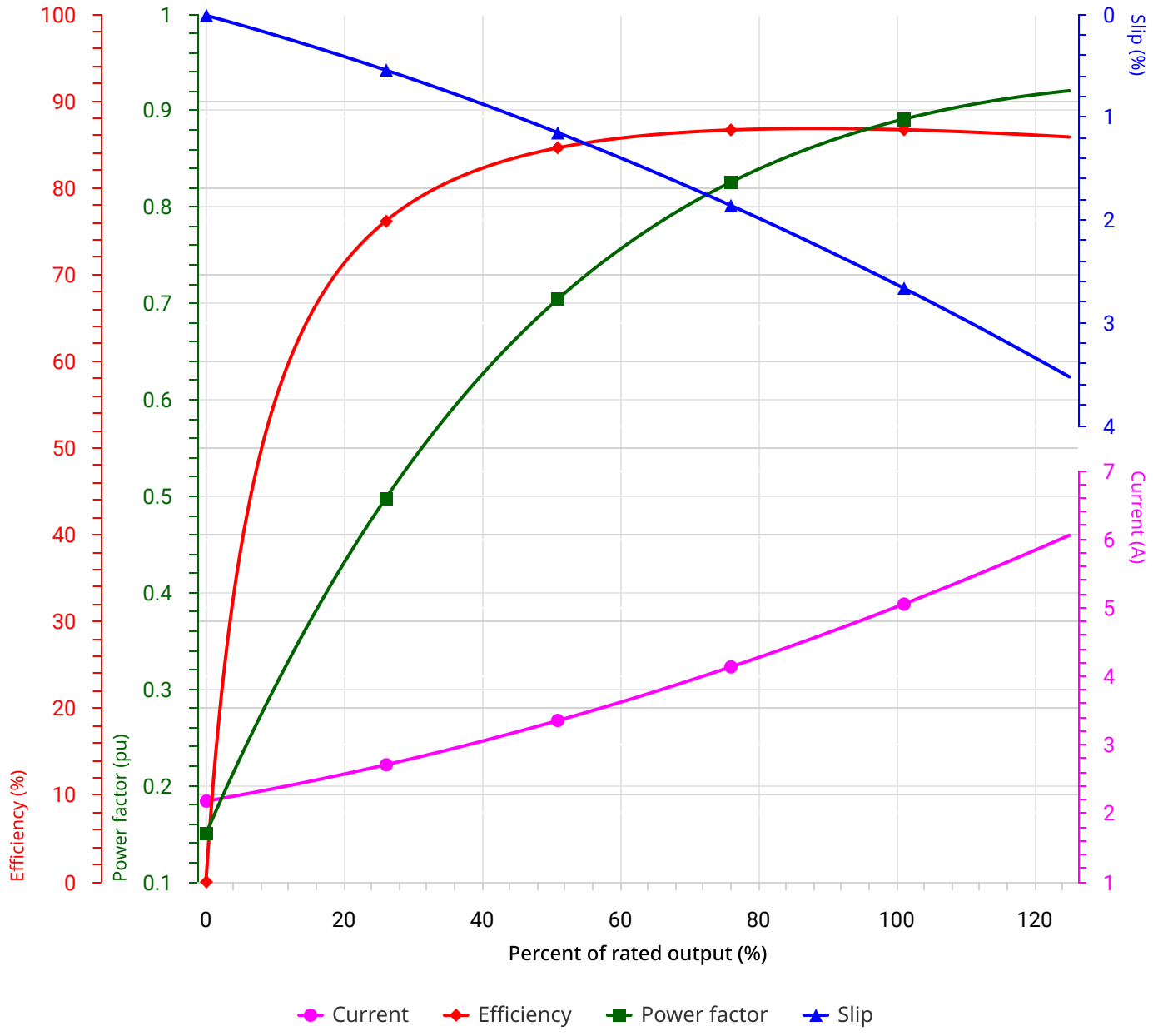
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Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W01 - TEFC - Nema Premium Efficiency JM Derating |
| Product code | : 14218459 |




| | |
|---|---|
| Performance | : 2 HP (1.5 kW) 220V 50Hz 2P 143/5JM |

| | | | |
|---|---|---|---|
| Rated current | : 5.10 A | Moment of inertia (J) | : 0.007 kgm² |
| LRC | : 10.9 Code M | Duty cycle | : Cont.(S1) |
| Rated torque | : 0 kgfm | Insulation class | : F |
| Locked rotor torque | : 350 % | Service factor | : 1.15 |
| Breakdown torque | : 430 % | Temperature rise | : 80 K |
| Rated speed | : 2920 rpm | Design | : 00002 |

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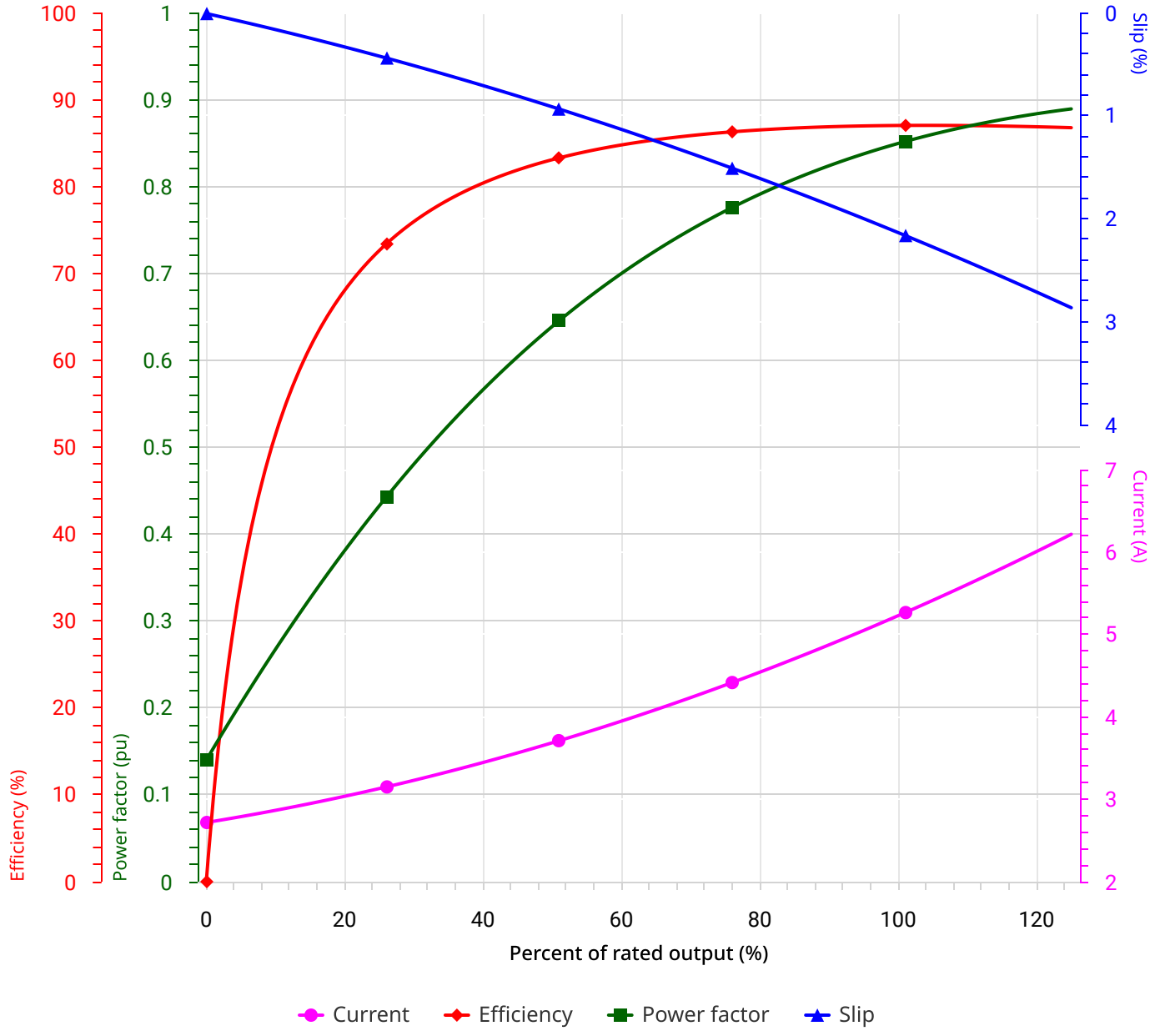
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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|---|---|
| Customer | : |
| Product line | : W01 - TEFC - Nema Premium Efficiency JM Derating |
| Product code | : 14218459 |




| | |
|---|---|
| Performance | : 2 HP (1.5 kW) 220/415V 50Hz 2P 143/5JM |

| | | | |
|---|---|---|---|
| Rated current | : 5.38/2.85 A | Moment of inertia (J) | : 0.007 kgm² |
| LRC | : 12.6 Code P | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.495 kgfm | Insulation class | : F |
| Locked rotor torque | : 440 % | Service factor | : 1.15 |
| Breakdown torque | : 520 % | Temperature rise | : 80 K |
| Rated speed | : 2935 rpm | Design | : B |

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

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