# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

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

| | |
|---|---|
| Product line | : W01 - ODP - Nema Premium Efficiency - Derating |
| Product code | : 12751144 |

| | | | |
|---|---|---|---|
| Frame | : 182/4T | Cooling method | : IC01 - ODP |
| Insulation class | : F | Mounting | : F-1/B3R(D) |
| Duty cycle | : S1 | Rotation | : Both |
| Ambient temperature | : -20 °C to +40 °C | Starting method | : Direct On Line |
| Altitude | : 1000 m | Approx. weight | : 31.7 kg |
| Protection degree | : IP21 | Moment of inertia (J) | : 0.0077 kgm² |
| Design | : B | | |

| Output | | 7.5 HP (5.5 kW) | 5.5 HP (4 kW) | 5.5 HP (4 kW) | 5.5 HP (4 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 | | 19.2-17.9/8.97 A | 16.0/8.02 A | 13.9 A | 14.9/7.90 A |
| L. R. Amperes | | 133/66.4 A | 128/64.2 A | 111 A | 134/71.1 A |
| LRC | | 7.4 Code H | 8.0 Code J | 8.0 Code J | 9.0 Code L |
| No load current | | 7.80/3.90 A | 7.60/3.80 A | 6.56 A | 9.05/4.80 A |
| Rated speed | | 3500 rpm | 2915 rpm | 2915 rpm | 2930 rpm |
| Slip | | 2.78 % | 2.83 % | 2.83 % | 2.33 % |
| Rated torque | | 1.56 kgfm | 1.37 kgfm | 1.00 kgfm | 1.36 kgfm |
| Locked rotor torque | | 200 % | 210 % | 210 % | 250 % |
| Breakdown torque | | 300 % | 320 % | 320 % | 400 % |
| Service factor | | 1.15 | 1.00 | 1.00 | 1.00 |
| Temperature rise | | 80 K | 80 K | 80 K | 80 K |
| Noise level | | 65 dB(A) | 63 dB(A) | 63.0 dB(A) | 63 dB(A) |
| Locked rotor time | | 11 s (hot) 20 s (cold) | 11 s (hot) 20 s (cold) | 11 s (hot) 20 s (cold) | 10 s (hot) 18 s (cold) |
| Efficiency (%) | 50% | 88.5 | 87.0 | 87.0 | 86.0 |
| | 75% | 88.5 | 87.9 | 87.9 | 87.4 |
| | 100% | 88.5 | 88.1 | 88.1 | 88.1 |
| Power Factor | Start | 0.56 | 0.57 | 0.57 | 0.58 |
| | 50% | 0.72 | 0.68 | 0.68 | 0.60 |
| | 75% | 0.82 | 0.80 | 0.80 | 0.71 |
| | 100% | 0.87 | 0.86 | 0.86 | 0.8 |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | |
| P1 (0,9;1,0) | | 13.05 | 12.56 | 12.56 | 12.83 |
| P2 (0,5;1,0) | | 10.87 | 10.47 | 10.47 | 10.69 |
| P3 (0,25;1,0) | | 10.37 | 9.98 | 9.98 | 10.19 |
| P4 (0,9;0,5) | | 7.60 | 7.32 | 7.32 | 7.47 |
| P5 (0,5;0,5) | | 5.13 | 4.94 | 4.94 | 5.04 |
| P6 (0,5;0,25) | | 3.99 | 3.84 | 3.84 | 3.92 |
| P7 (0,25;0,25) | | 2.81 | 2.71 | 2.71 | 2.77 |

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6206-ZZ | 6205-ZZ |
| Lubrication interval | - | - |
| Lubricant amount | - | - |
| Lubricant type | MOBIL POLYREX EM | |

Notes:

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | 2026/11/13 |

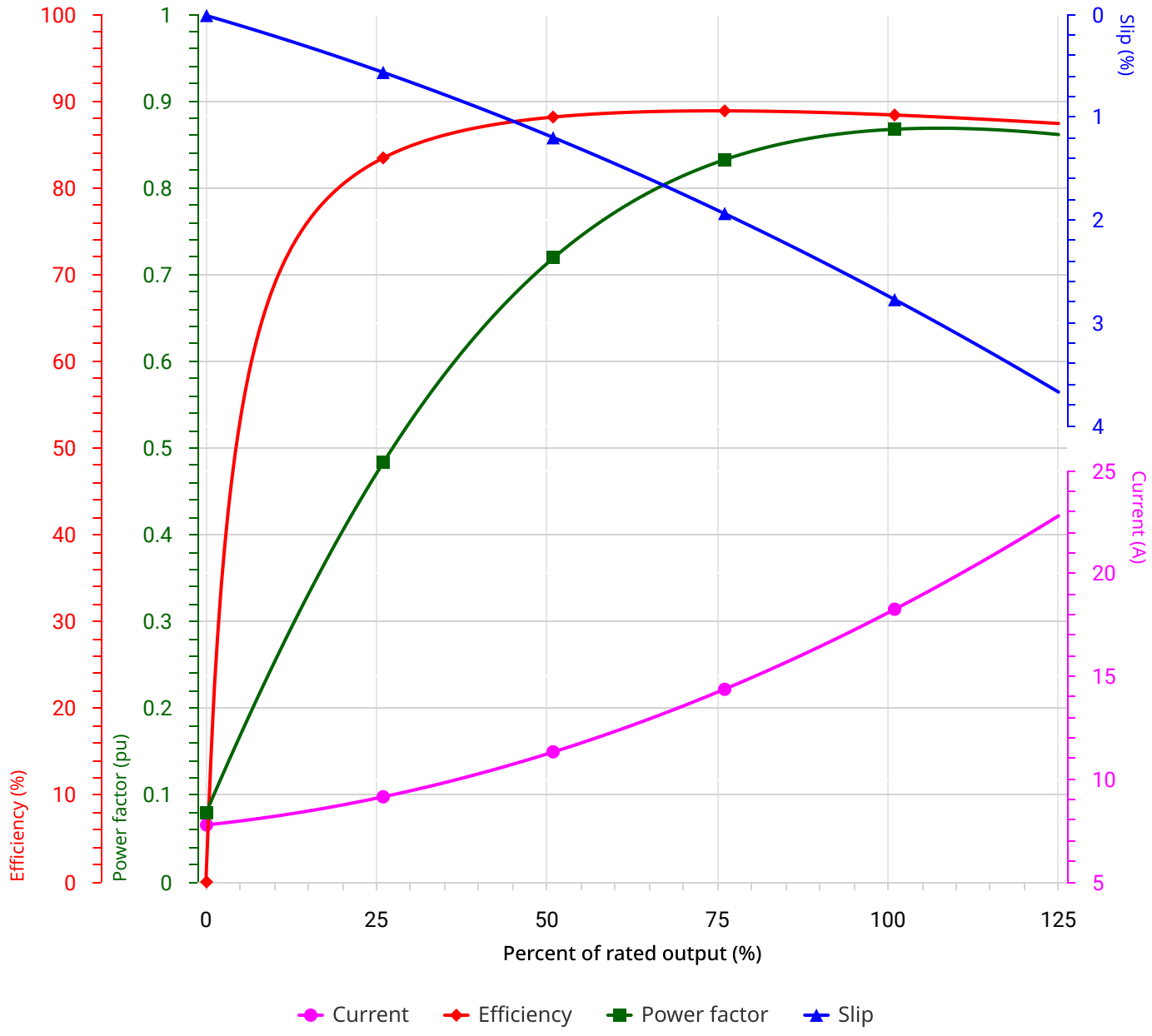
| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 2026/11/13 | | 1/5 | 0 |

*This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.*

## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W01 - ODP - Nema Premium Efficiency - Derating |
| Product code | : 12751144 |




| | |
|---|---|
| Performance | : 7.5 HP (5.5 kW) 208/230/460V 60Hz 2P 182/4T |

| | | | |
|---|---|---|---|
| Rated current | : 19.2/17.9/8.97 A | Moment of inertia (J) | : 0.0077 kgm² |
| LRC | : 7.4 Code H | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.56 kgfm | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.15 |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 3500 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | 2026/11/13 |

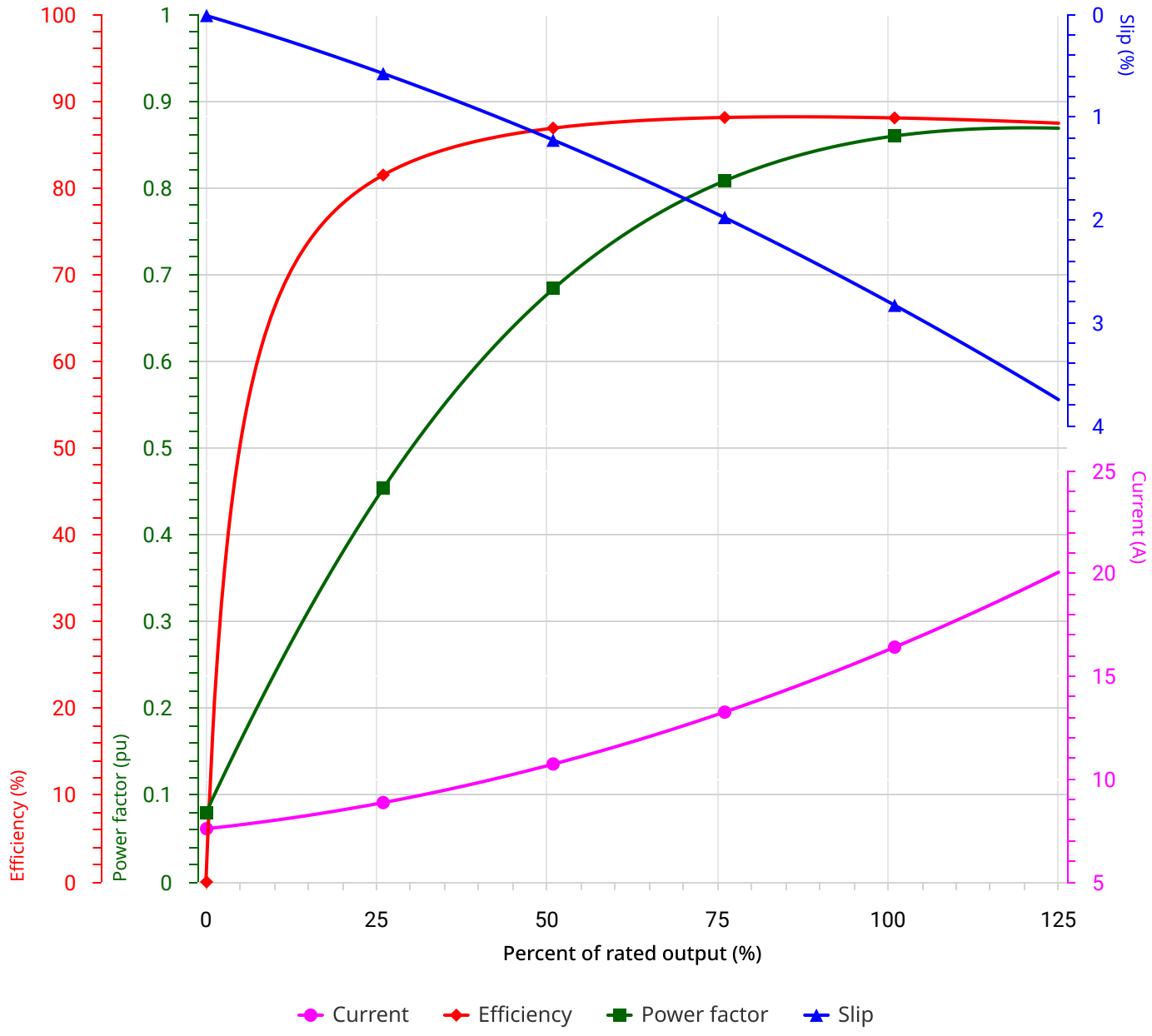
| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 2026/11/13 | | 2/5 | 0 |

*This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.*

## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W01 - ODP - Nema Premium Efficiency - Derating |
| Product code | : 12751144 |




| | |
|---|---|
| Performance | : 5.5 HP (4 kW) 190/380V 50Hz 2P 182/4T |

| | | | |
|---|---|---|---|
| Rated current | : 16.0/8.02 A | Moment of inertia (J) | : 0.0077 kgm² |
| LRC | : 8.0 Code J | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.37 kgfm | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
| Breakdown torque | : 320 % | Temperature rise | : 80 K |
| Rated speed | : 2915 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | 2026/11/13 |

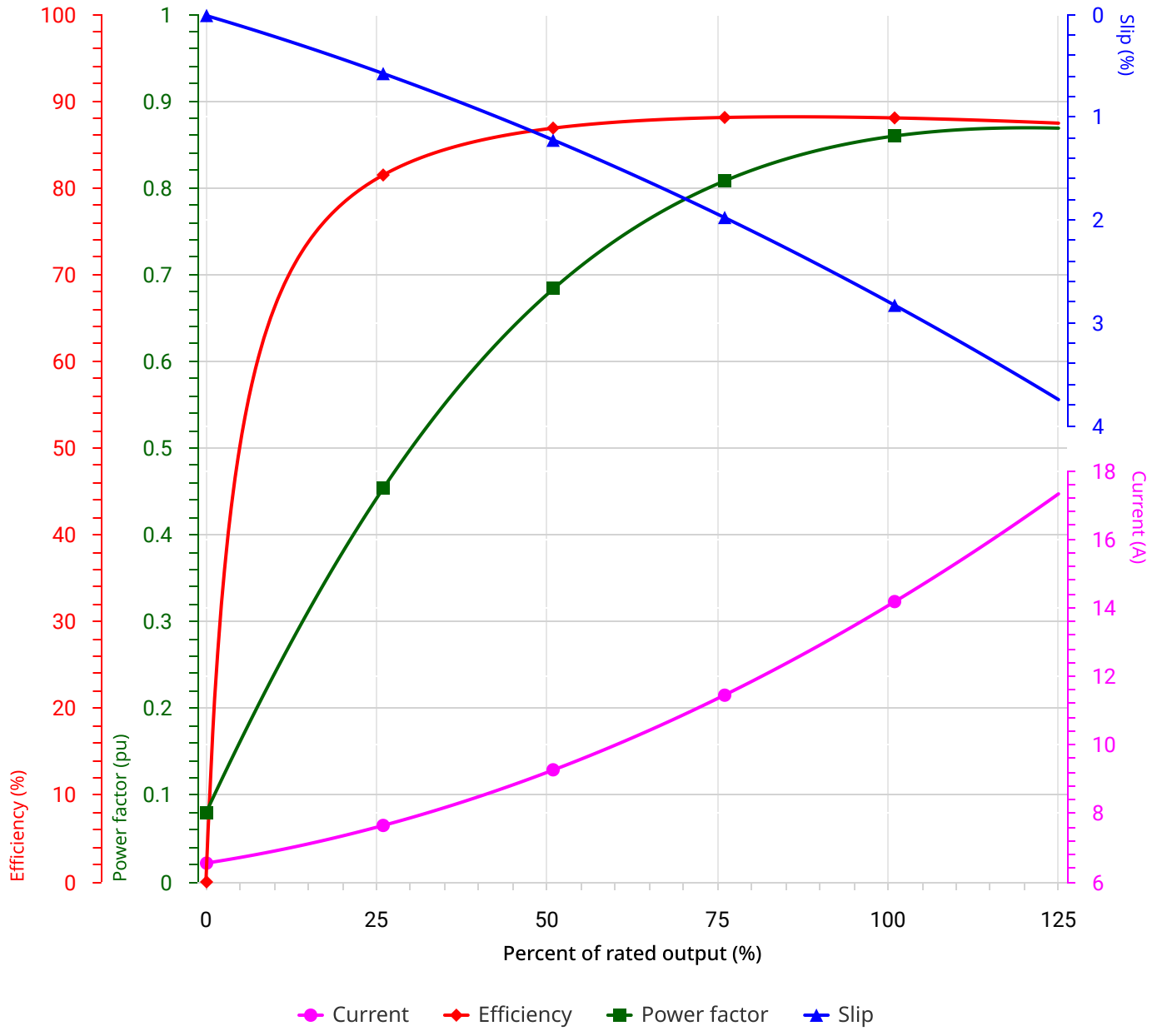
| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 2026/11/13 | | 3/5 | 0 |

*This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.*

## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W01 - ODP - Nema Premium Efficiency - Derating |
| Product code | : 12751144 |




| | |
|---|---|
| Performance | : 5.5 HP (4 kW) 220V 50Hz 2P 182/4T |

| | | | |
|---|---|---|---|
| Rated current | : 13.9 A | Moment of inertia (J) | : 0.0077 kgm² |
| LRC | : 8.0 Code J | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.00 kgfm | Insulation class | : F |
| Locked rotor torque | : 210 % | Service factor | : 1.00 |
| Breakdown torque | : 320 % | Temperature rise | : 80 K |
| Rated speed | : 2915 rpm | Design | : 00002 |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | 2026/11/13 |

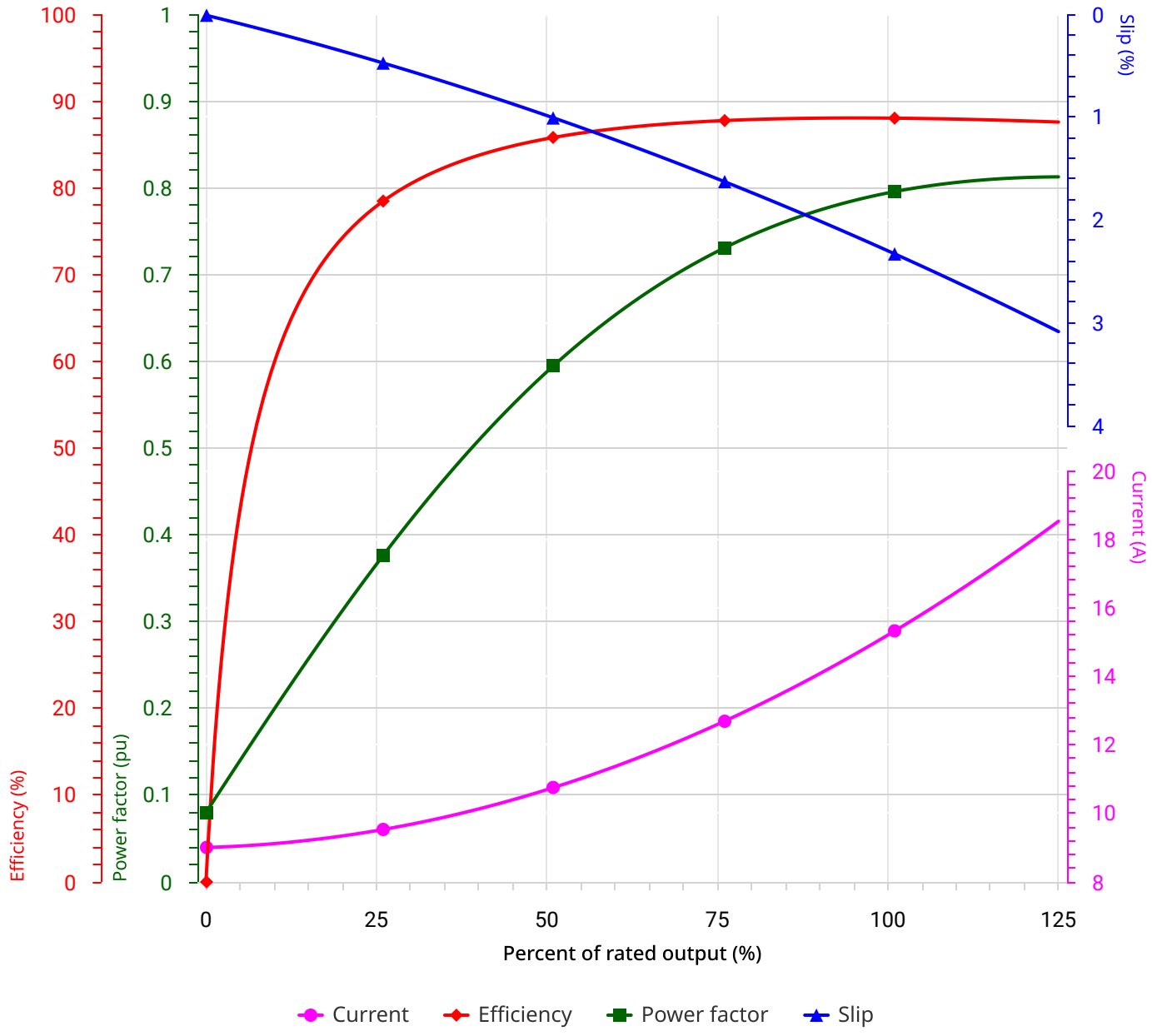
| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 2026/11/13 | | 4/5 | 0 |

*This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.*

## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W01 - ODP - Nema Premium Efficiency - Derating |
| Product code | : 12751144 |




| | |
|---|---|
| Performance | : 5.5 HP (4 kW) 220/415V 50Hz 2P 182/4T |

| | | | |
|---|---|---|---|
| Rated current | : 14.9/7.90 A | Moment of inertia (J) | : 0.0077 kgm² |
| LRC | : 9.0 Code L | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.36 kgfm | Insulation class | : F |
| Locked rotor torque | : 250 % | Service factor | : 1.00 |
| Breakdown torque | : 400 % | Temperature rise | : 80 K |
| Rated speed | : 2930 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | 2026/11/13 |

| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 2026/11/13 | | 5/5 | 0 |

*This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.*