# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 P-base - Nema Premium Efficiency - Derating |
| Product code | : 14605782 |

| | | | |
|---|---|---|---|
| Frame | : 404/5HPH | 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 | : 500 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.5561 kgm² |
| Design | : B | | |

| Output | | 100 HP (75 kW) | 100 HP (75 kW) | 75 HP (55 kW) | 75 HP (55 kW) | 75 HP (55 kW) |
|---|---|---|---|---|---|---|
| Poles | | 2 | 2 | 2 | 2 | 2 |
| Frequency | | 60 Hz | 60 Hz | 50 Hz | 50 Hz | 50 Hz |
| Rated voltage | | 230/460 V | 208 V | 380 V | 400 V | 415 V |
| Rated current | | 224/112 A | 243 A | 99.6 A | 94.6 A | 92.2 A |
| L. R. Amperes | | 1456/728 A | 1581 A | 677 A | 719 A | 756 A |
| LRC | | 6.5 Code G | 6.5 Code G | 6.8 Code G | 7.6 Code H | 8.2 Code J |
| No load current | | 52.0/26.0 A | 44.8 A | 25.7 A | 27.5 A | 29.1 A |
| Rated speed | | 3545 rpm | 3545 rpm | 2955 rpm | 2960 rpm | 2965 rpm |
| Slip | | 1.53 % | 1.53 % | 1.50 % | 1.33 % | 1.17 % |
| Rated torque | | 20.5 kgfm | 20.0 kgfm | 18.4 kgfm | 18.4 kgfm | 18.4 kgfm |
| Locked rotor torque | | 240 % | 240 % | 250 % | 280 % | 300 % |
| Breakdown torque | | 260 % | 260 % | 280 % | 310 % | 330 % |
| Service factor | | 1.25 | 1.25 | 1.00 | 1.00 | 1.00 |
| Temperature rise | | 80 K | 80 K | 80 K | 80 K | 80 K |
| Noise level | | 79 dB(A) | 79.0 dB(A) | 74 dB(A) | 74 dB(A) | 74 dB(A) |
| Locked rotor time | | 14 s (hot) 25 s (cold) | 14 s (hot) 25 s (cold) | 10 s (hot) 18 s (cold) | 10 s (hot) 18 s (cold) | 10 s (hot) 18 s (cold) |
| Efficiency (%) | 50% | 93.0 | 93.0 | 93.0 | 93.1 | 93.5 |
| | 75% | 94.1 | 94.1 | 93.8 | 93.8 | 94.0 |
| | 100% | 94.1 | 94.1 | 94.3 | 94.3 | 94.3 |
| Power Factor | Start | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 |
| | 50% | 0.83 | 0.83 | 0.82 | 0.80 | 0.78 |
| | 75% | 0.88 | 0.88 | 0.88 | 0.86 | 0.85 |
| | 100% | 0.89 | 0.89 | 0.89 | 0.89 | 0.88 |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | | |
| P1 (0,9;1,0) | | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 |
| P2 (0,5;1,0) | | 4.64 | 4.64 | 4.64 | 4.64 | 4.64 |
| P3 (0,25;1,0) | | 4.38 | 4.38 | 4.38 | 4.38 | 4.38 |
| P4 (0,9;0,5) | | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| P5 (0,5;0,5) | | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 |
| P6 (0,5;0,25) | | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| P7 (0,25;0,25) | | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 |

| | Drive end | Non drive end |
|---|---|---|
| Bearing type | 6316-C3 | 6314-C3 |
| Lubrication interval | 2000 h | 3000 h |
| Lubricant amount | 34 g | 27 g |
| Lubricant type | ISOFLEX NBU-15 | |

Notes:

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | 2026/11/24 |

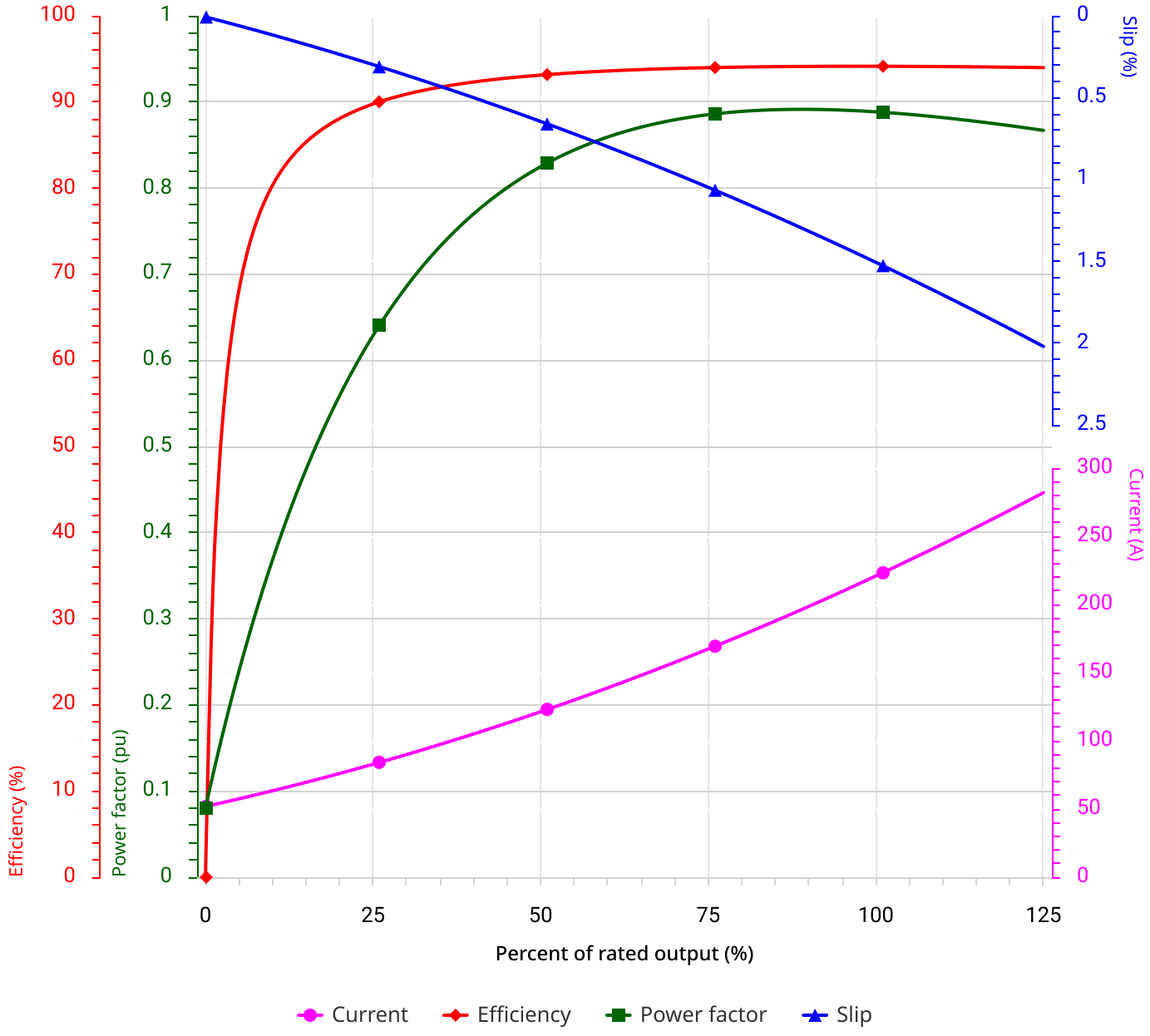
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |
| Product line | : W22 P-base - Nema Premium Efficiency - Derating |
| Product code | : 14605782 |




| | |
|---|---|
| Performance | : 100 HP (75 kW) 230/460V 60Hz 2P 404/5HPH |

| | | | |
|---|---|---|---|
| Rated current | : 224/112 A | Moment of inertia (J) | : 0.5561 kgm² |
| LRC | : 6.5 Code G | Duty cycle | : Cont.(S1) |
| Rated torque | : 20.5 kgfm | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.25 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 3545 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | 2026/11/24 |

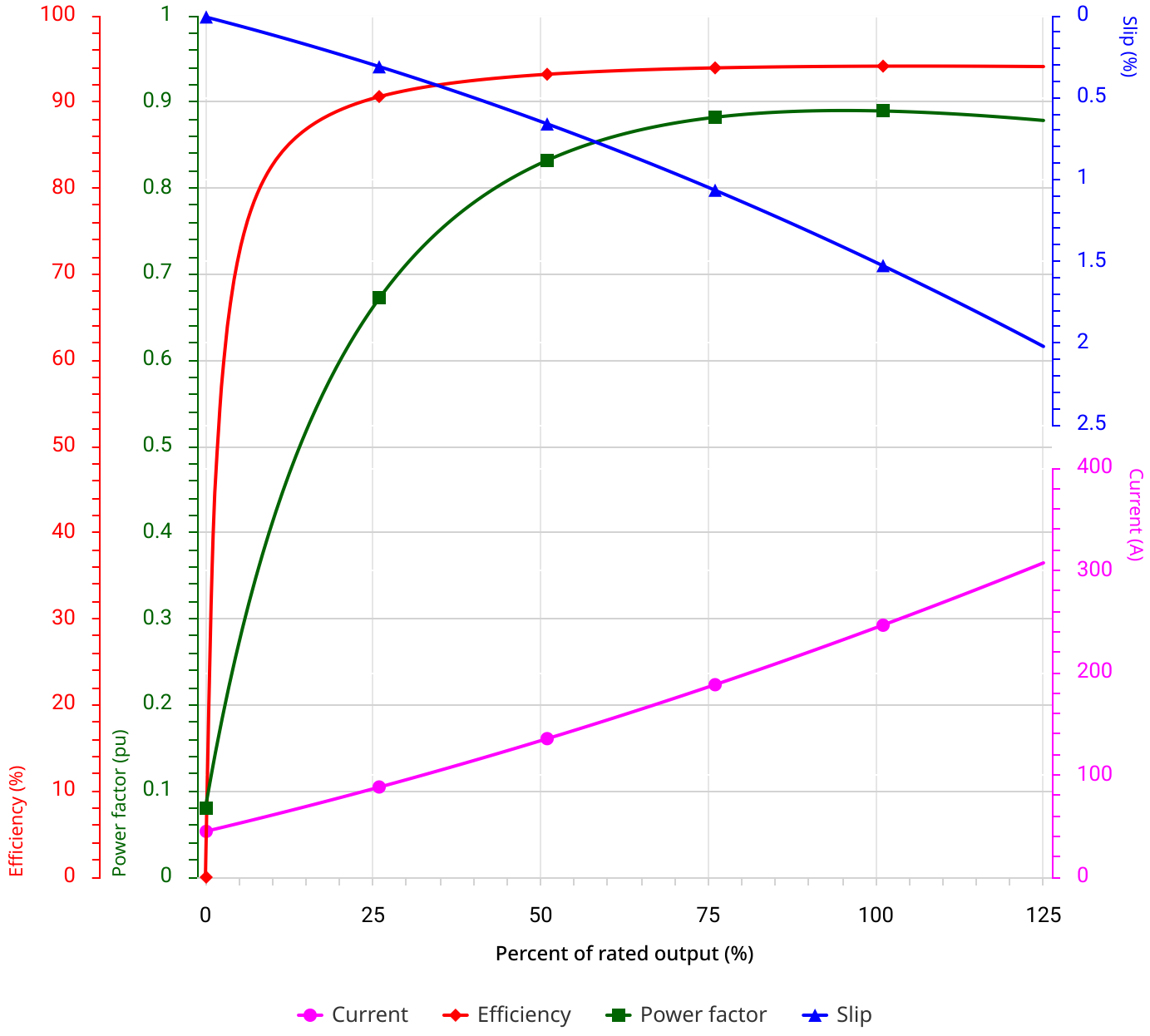
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| Product code | : 14605782 |




| | |
|---|---|
| Performance | : 100 HP (75 kW) 208V 60Hz 2P 404/5HPH |

| | | | |
|---|---|---|---|
| Rated current | : 243 A | Moment of inertia (J) | : 0.5561 kgm² |
| LRC | : 6.5 Code G | Duty cycle | : Cont.(S1) |
| Rated torque | : 20.0 kgfm | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.25 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 3545 rpm | Design | : 00002 |

| Rev. | Changes Summary | Performed | Checked | Date |
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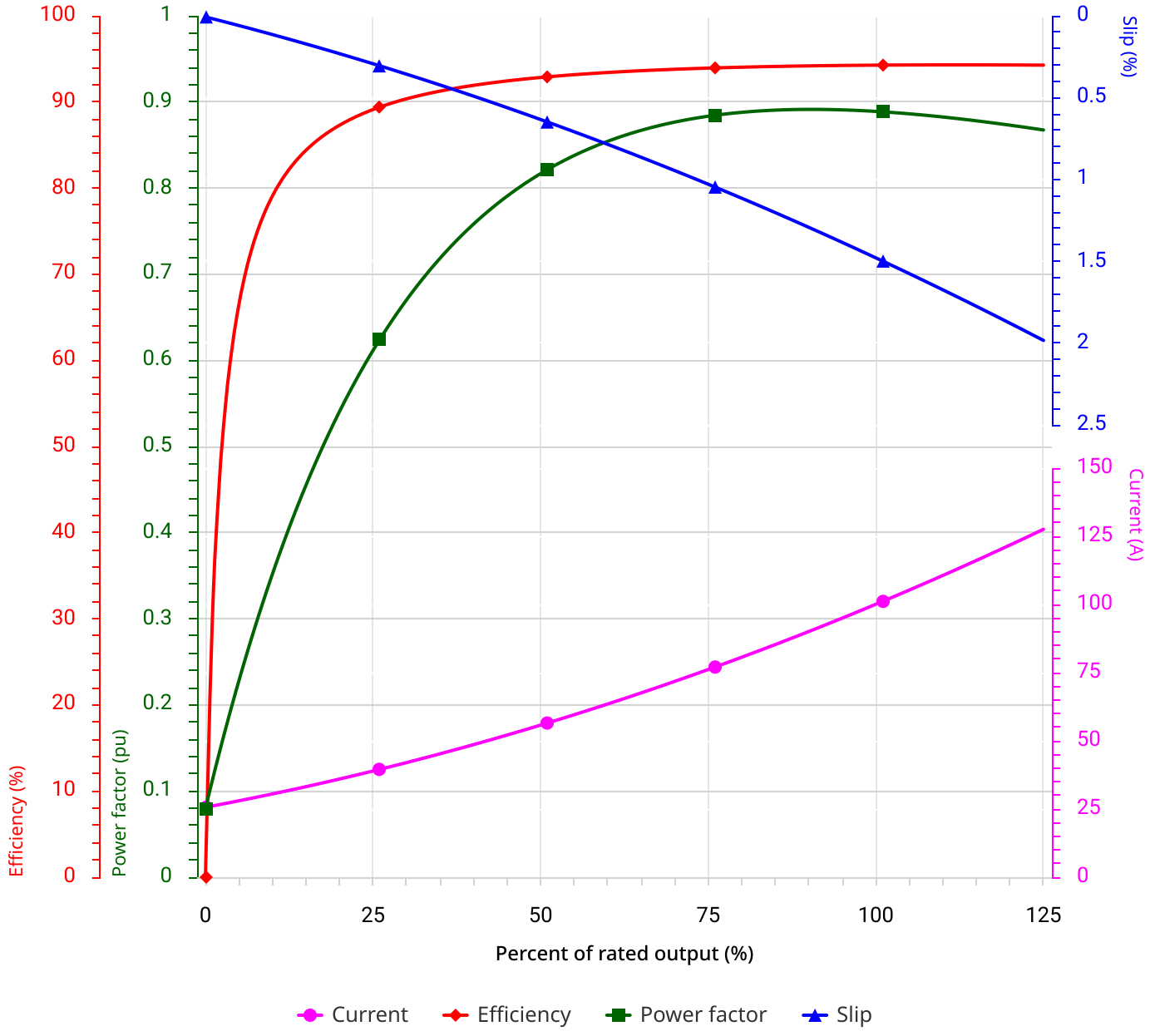
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|---|---|
| Customer | : |
| Product line | : W22 P-base - Nema Premium Efficiency - Derating |
| Product code | : 14605782 |




| | |
|---|---|
| Performance | : 75 HP (55 kW) 380V 50Hz 2P 404/5HPH |

| | | | |
|---|---|---|---|
| Rated current | : 99.6 A | Moment of inertia (J) | : 0.5561 kgm² |
| LRC | : 6.8 Code G | Duty cycle | : Cont.(S1) |
| Rated torque | : 18.4 kgfm | Insulation class | : F |
| Locked rotor torque | : 250 % | Service factor | : 1.00 |
| Breakdown torque | : 280 % | Temperature rise | : 80 K |
| Rated speed | : 2955 rpm | Design | : B |

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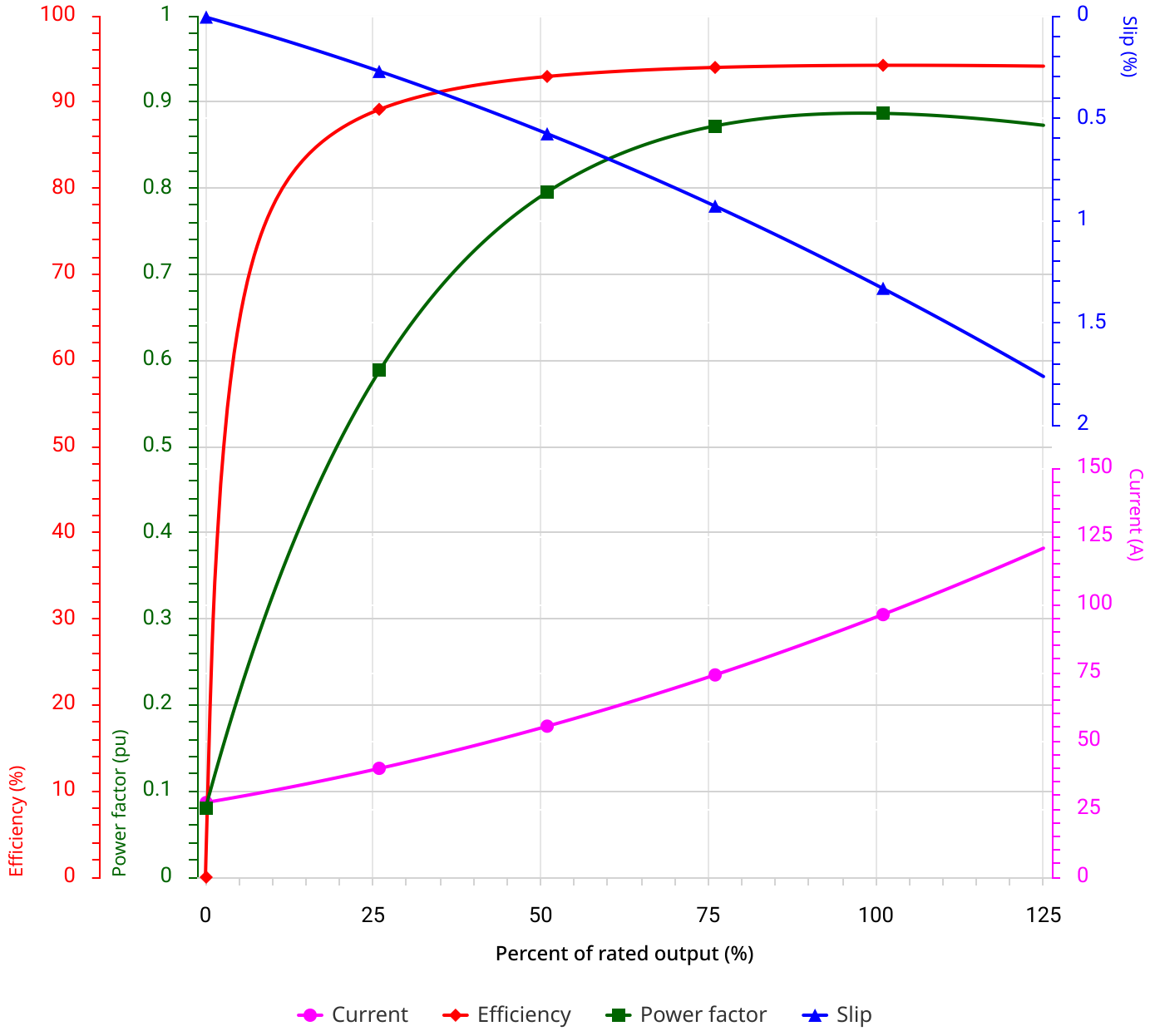
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|---|---|
| Customer | : |
| Product line | : W22 P-base - Nema Premium Efficiency - Derating |
| Product code | : 14605782 |




| | |
|---|---|
| Performance | : 75 HP (55 kW) 400V 50Hz 2P 404/5HPH |

| | | | |
|---|---|---|---|
| Rated current | : 94.6 A | Moment of inertia (J) | : 0.5561 kgm² |
| LRC | : 7.6 Code H | Duty cycle | : Cont.(S1) |
| Rated torque | : 18.4 kgfm | Insulation class | : F |
| Locked rotor torque | : 280 % | Service factor | : 1.00 |
| Breakdown torque | : 310 % | Temperature rise | : 80 K |
| Rated speed | : 2960 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | 2026/11/24 |

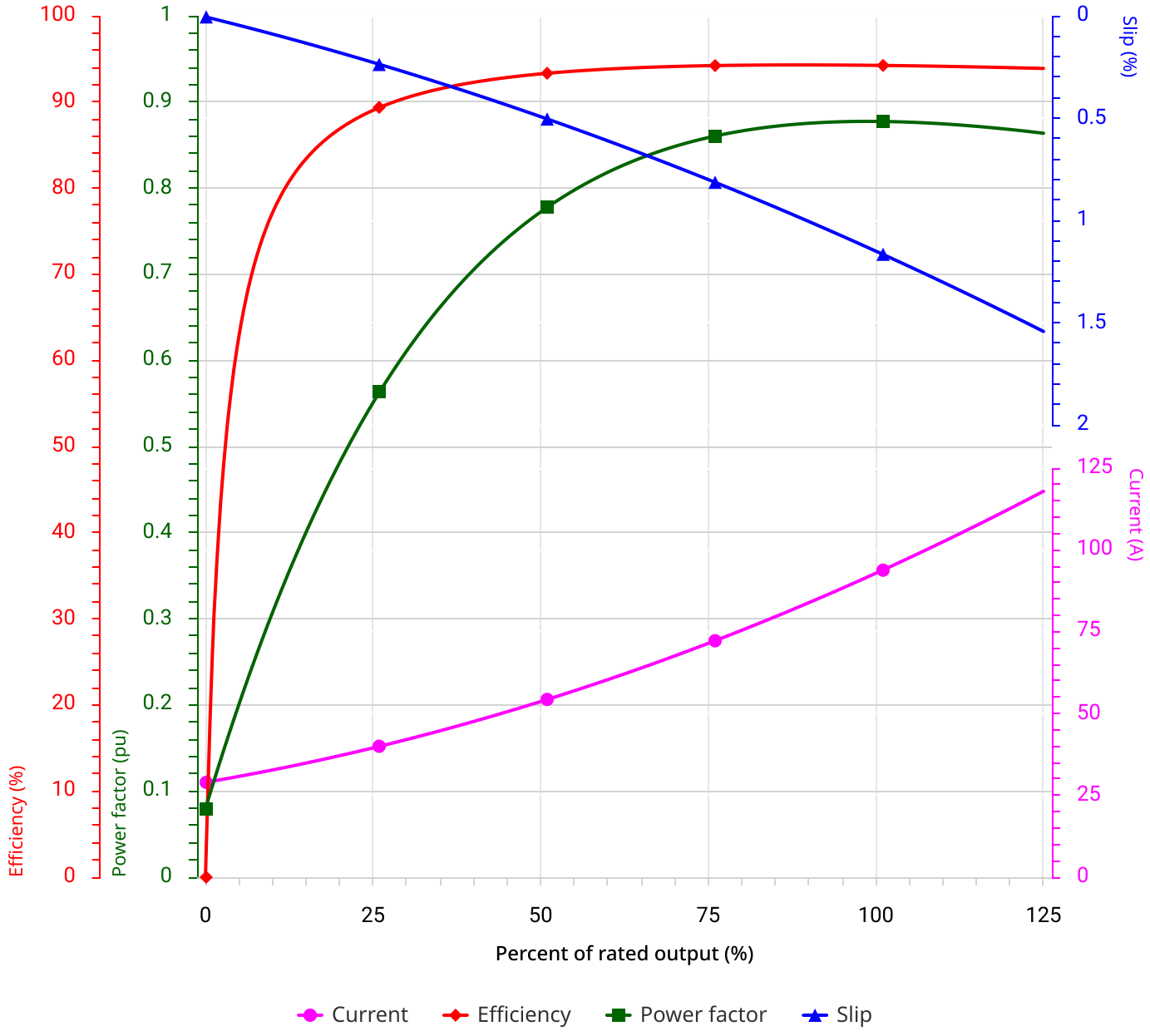
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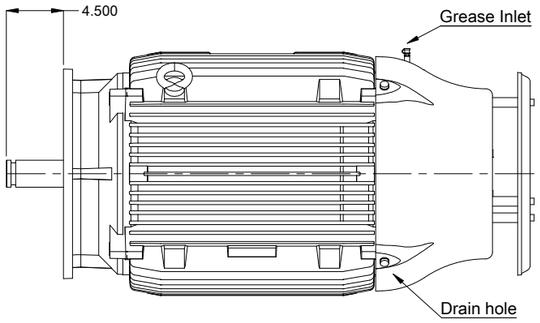

| | |
|---|---|
| Performance | : 75 HP (55 kW) 415V 50Hz 2P 404/5HPH |

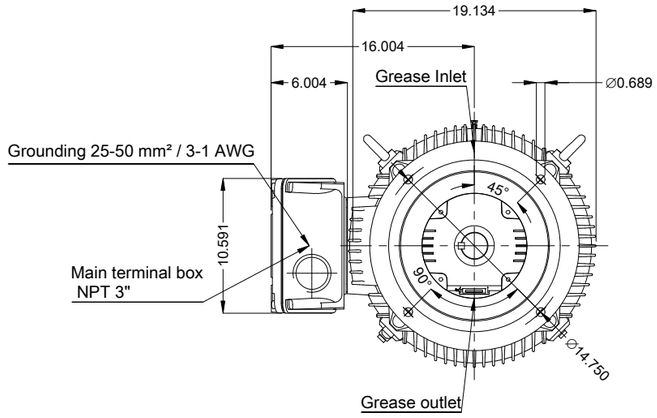
| | | | |
|---|---|---|---|
| Rated current | : 92.2 A | Moment of inertia (J) | : 0.5561 kgm² |
| LRC | : 8.2 Code J | Duty cycle | : Cont.(S1) |
| Rated torque | : 18.4 kgfm | Insulation class | : F |
| Locked rotor torque | : 300 % | Service factor | : 1.00 |
| Breakdown torque | : 330 % | Temperature rise | : 80 K |
| Rated speed | : 2965 rpm | Design | : B |

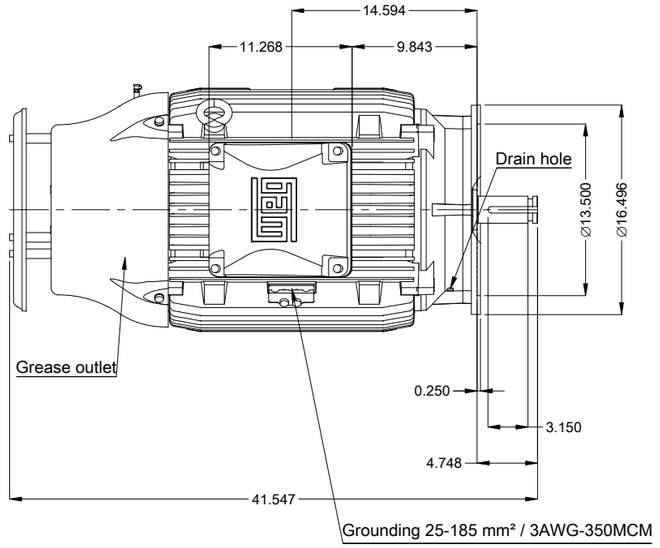
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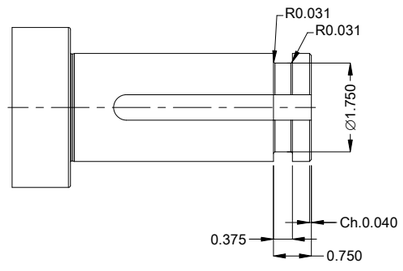
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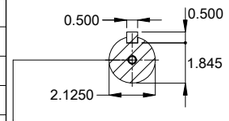



DE Shaft End




DUNC 5/8"-11 WEG WPR-7339

| |
|---|
| With drip cover |
| Color RAL 5009 |
| Painting plan 203A |
| Mounting NEMA W-6 |
| Mounting V1 |

100 HP 02 Poles 60 Hz | A

Scale 1 : 12

| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
|---|---|---|---|---|---|---|---|
| | | | HYBRISUSER | | | | 00 |

| | |
|---|---|
| EXECUTED | HYBRISUSER |
| CHECKED | |
| RELEASED | |
| REL. DATE | |

THREE PH. MOTOR W22 P. BASE NEMA PREM. EFF.
FRAME 404/5HPH IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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