# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

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

| | | | |
|---|---|---|---|
| Product line | : Three-Phase | Product code : | 14477525 |

| | | | |
|---|---|---|---|
| Frame | : W56C | Cooling method | : IC411 - TEFC |
| Insulation class | : F | Mounting | : F-1 |
| Duty cycle | : Cont.(S1) | Rotation¹ | : Both (CW and CCW) |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line |
| Altitude | : 1000 m.a.s.l. | Approx. weight³ | : 6.8 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0012 kgm² |

| | | | | |
|---|---|---|---|---|
| Output [HP] | | 0.25 | 0.25 | 0.25 |
| Poles | | 4 | 4 | 4 |
| Frequency [Hz] | | 60 | 50 | 50 |
| Rated voltage [V] | | 208-230/460 | 190/380 | 220/415 |
| Rated current [A] | | 1.06-0.936/0.468 | 1.04/0.522 | 0.973/0.516 |
| L. R. Amperes [A] | | 5.96-5.24/2.62 | 4.70/2.35 | 4.67/2.48 |
| LRC [A] | | 5.6x(Code K) | 4.5x(Code G) | 4.8x(Code H) |
| No load current [A] | | 0.650-0.754/0.377 | 0.738/0.369 | 0.758/0.402 |
| Rated speed [RPM] | | 1740 | 1415 | 1420 |
| Slip [%] | | 3.33 | 5.67 | 5.33 |
| Rated torque [kgfm] | | 0.104 | 0.128 | 0.128 |
| Locked rotor torque [%] | | 240 | 180 | 200 |
| Breakdown torque [%] | | 320 | 220 | 250 |
| Service factor | | | 1.15 | 1.15 |
| Temperature rise | | 80 K | 80 K | 80 K |
| Locked rotor time | | 50s (cold) 28s (hot) | 46s (cold) 26s (hot) | 43s (cold) 24s (hot) |
| Noise level² | | 50.0 dB(A) | 49.0 dB(A) | 49.0 dB(A) |
| Efficiency (%) | 25% | | | |
| | 50% | 59.5 | 60.3 | 58.1 |
| | 75% | 66.0 | 65.9 | 64.8 |
| | 100% | 70.0 | 67.2 | 67.1 |
| Power Factor | 25% | | | |
| | 50% | 0.48 | 0.56 | 0.52 |
| | 75% | 0.60 | 0.69 | 0.65 |
| | 100% | 0.69 | 0.78 | 0.75 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6203 ZZ | 6202 ZZ |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | Mobil Polyrex EM | |

Foundation loads

Max. traction : 6 kgf

Max. compression : 13 kgf

Notes

USABLE @208V SF 1.00

This revision replaces and cancel the previous one, which must be eliminated.

(1) Looking the motor from the shaft end.

(2) Measured at 1m and with tolerance of +3dB(A).

(3) Approximate weight subject to changes after manufacturing process.

(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

| Rev. | Changes Summary | Performed | Checked | Date |
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| Checked by | | | Page | Revision |
| Date | 17/05/2022 | | 1 / 4 | |

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

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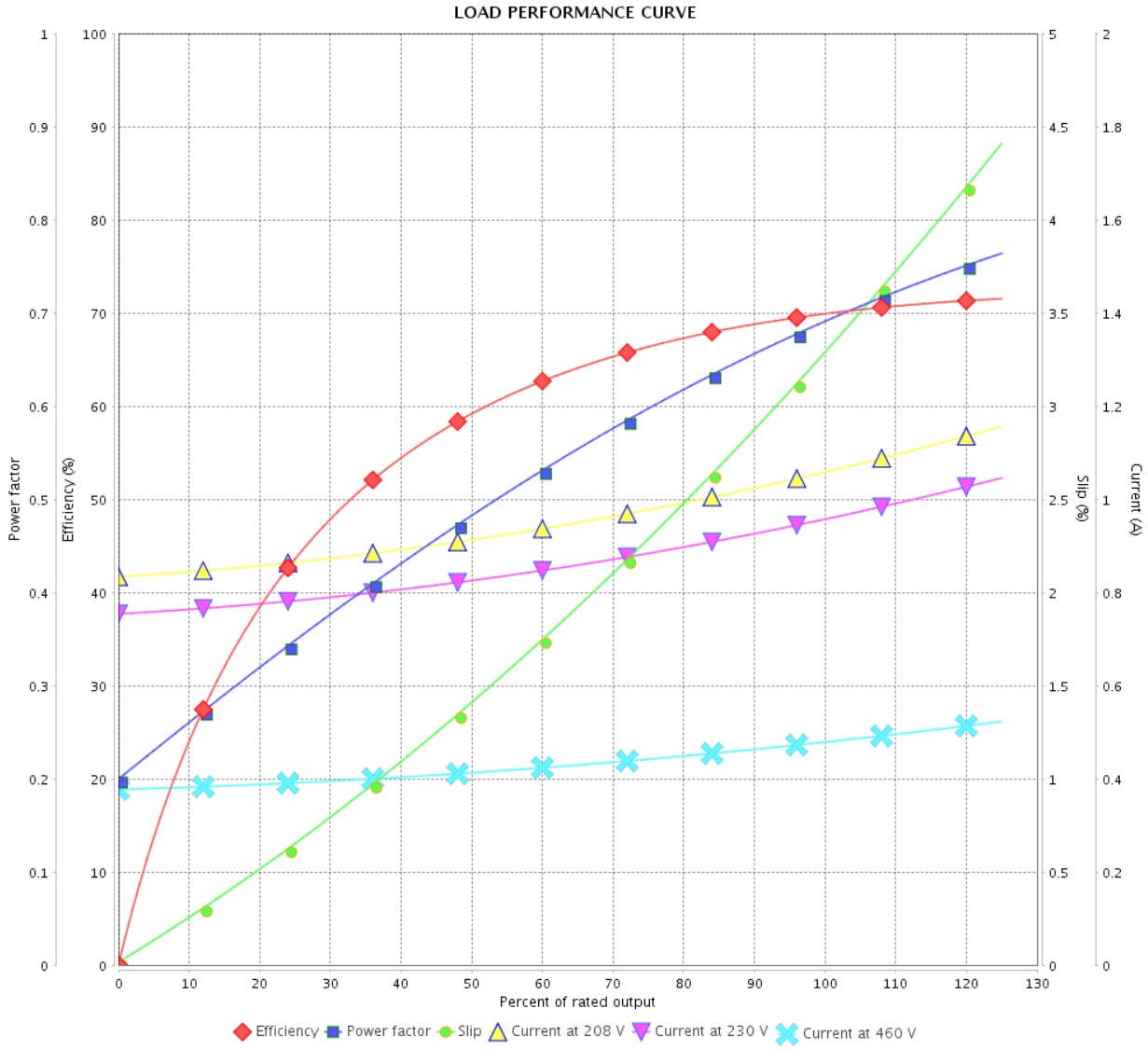


| | | | |
|---|---|---|---|
| Performance | : 208-230/460 V 60 Hz 4P | | |
| Rated current | : 1.06-0.936/0.468 A | Moment of inertia (J) | : 0.0012 kgm² |
| LRC | : 5.6 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.104 kgfm | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : |
| Breakdown torque | : 320 % | Temperature rise | : 80 K |
| Rated speed | : 1740 rpm | | |

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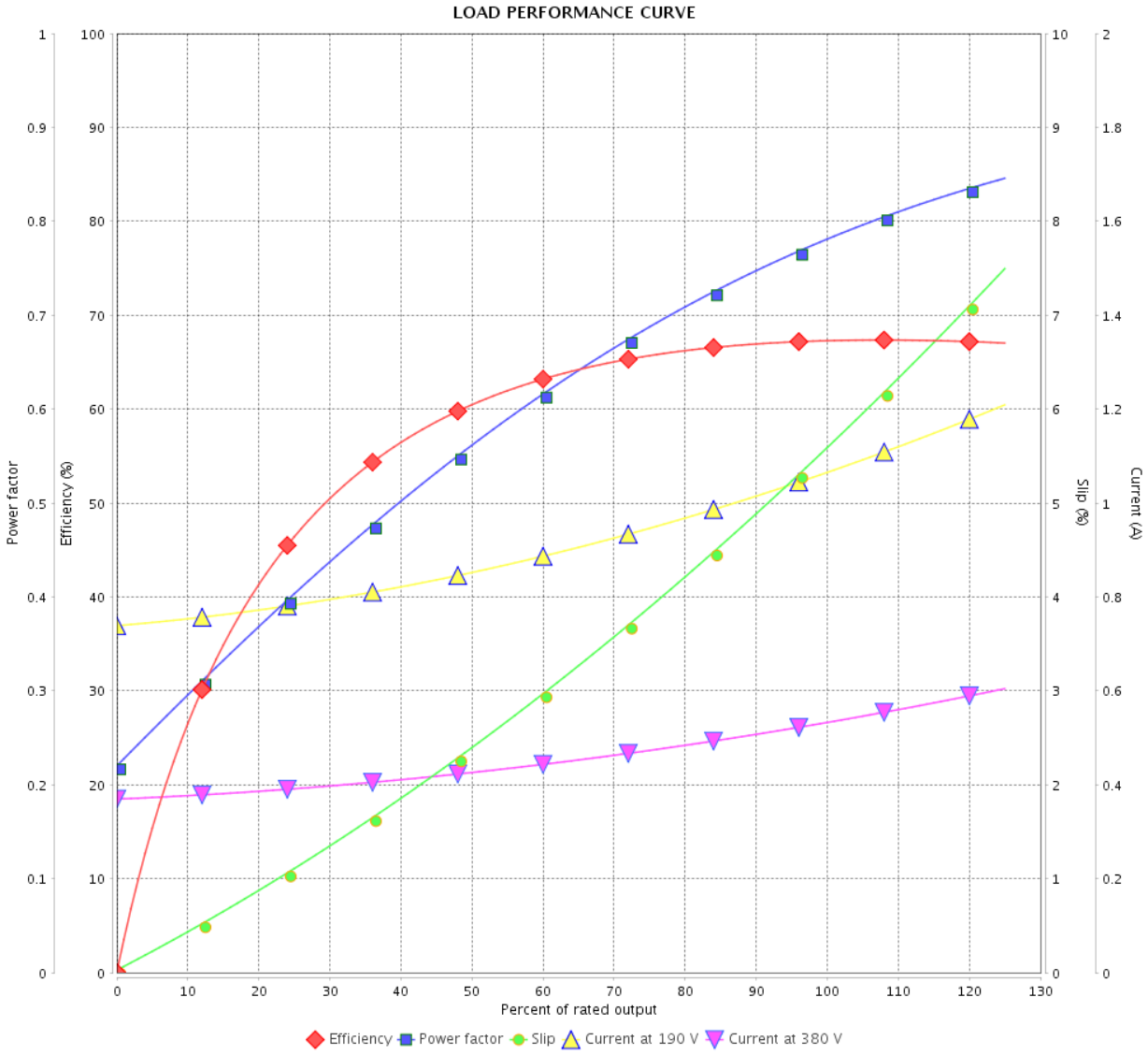


| | | | |
|---|---|---|---|
| Performance | : 190/380 V 50 Hz 4P | | |
| Rated current | : 1.04/0.522 A | Moment of inertia (J) | : 0.0012 kgm² |
| LRC | : 4.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.128 kgfm | Insulation class | : F |
| Locked rotor torque | : 180 % | Service factor | : 1.15 |
| Breakdown torque | : 220 % | Temperature rise | : 80 K |
| Rated speed | : 1415 rpm | | |

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# LOAD PERFORMANCE CURVE

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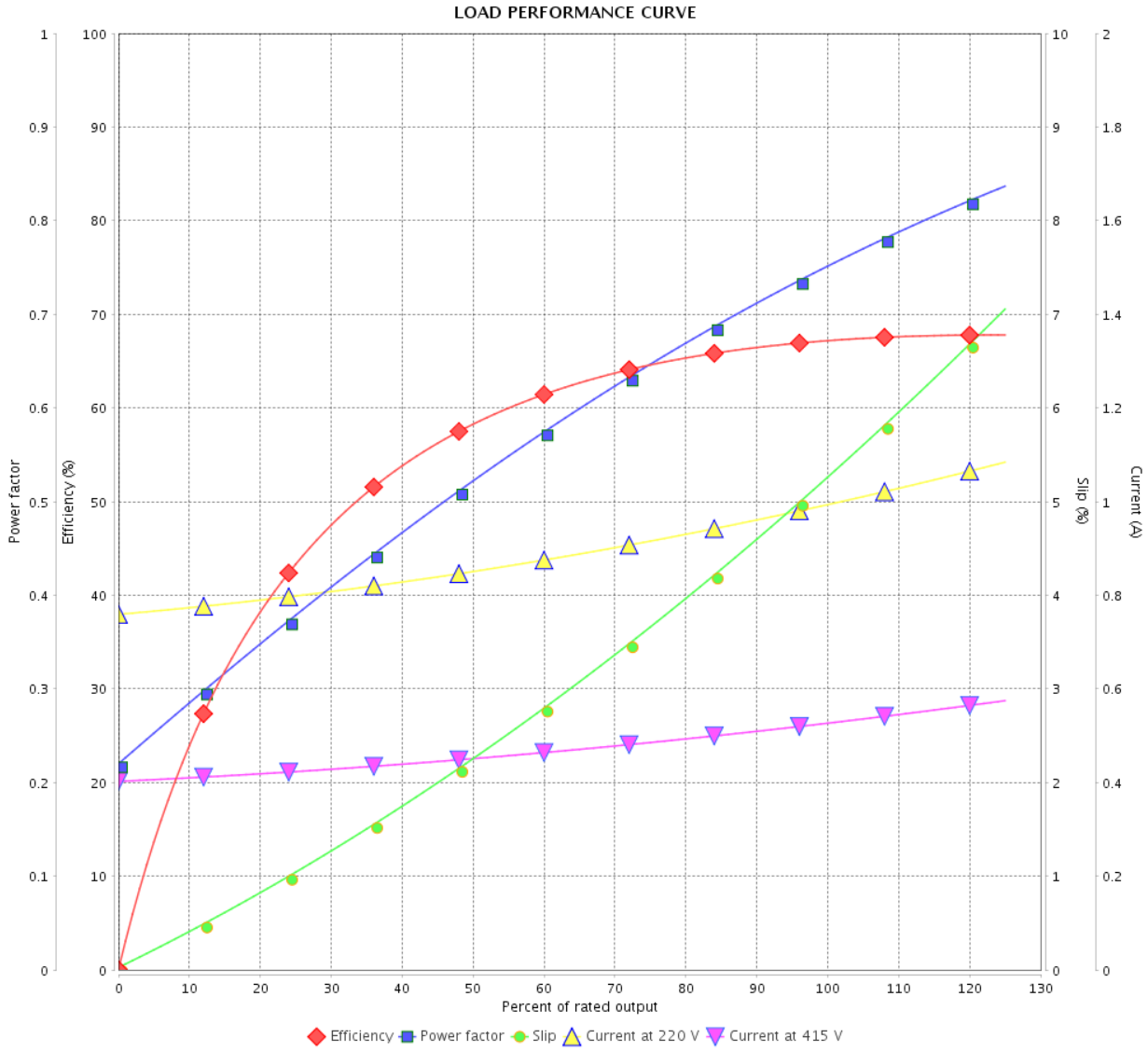


| | | | |
|---|---|---|---|
| Performance | : 220/415 V 50 Hz 4P | | |
| Rated current | : 0.973/0.516 A | Moment of inertia (J) | : 0.0012 kgm² |
| LRC | : 4.8 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.128 kgfm | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.15 |
| Breakdown torque | : 250 % | Temperature rise | : 80 K |
| Rated speed | : 1420 rpm | | |

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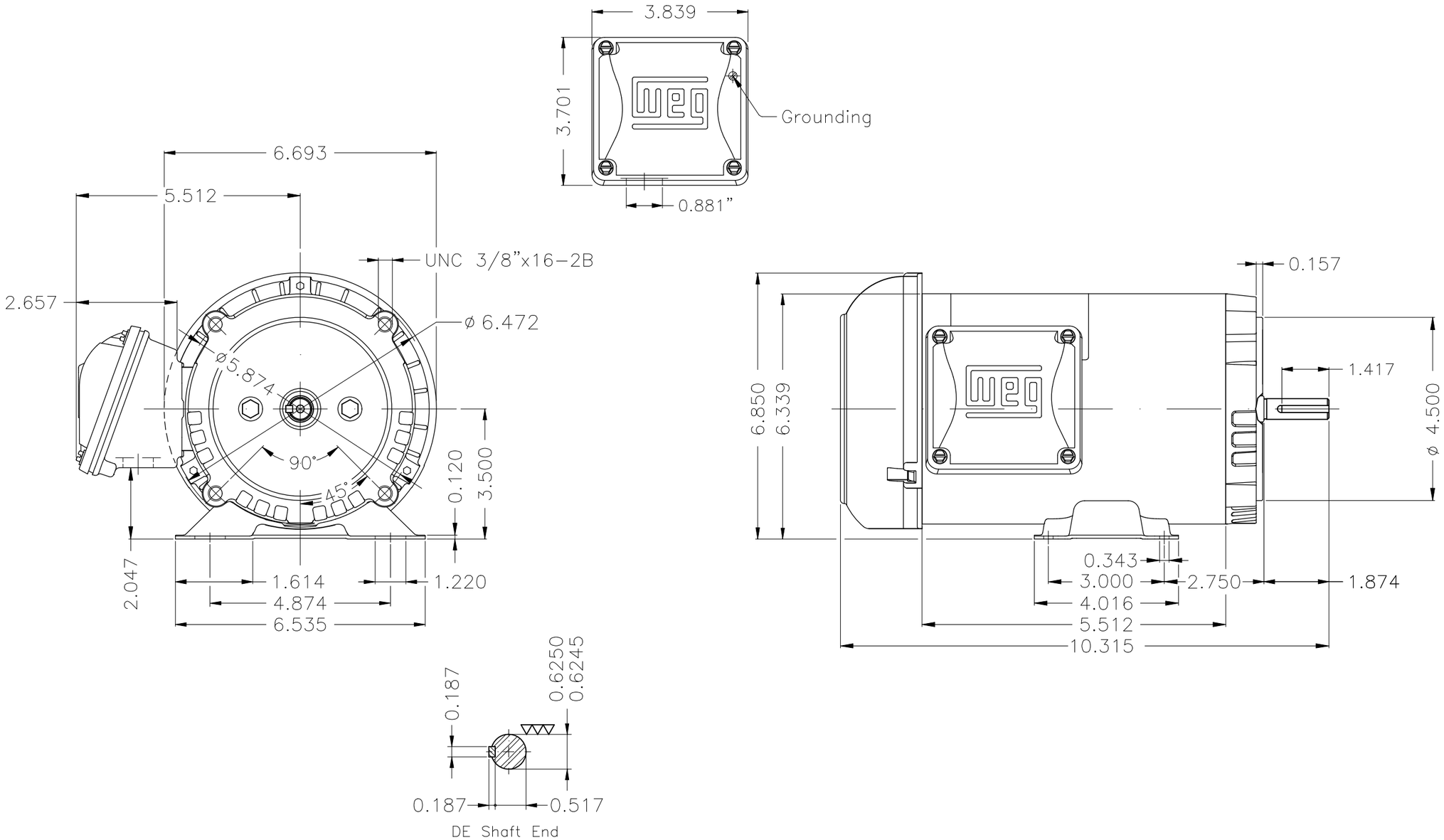


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|---|---|---|---|---|---|---|---|
| | | | HYBRISUSER | | | | 00 |
| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |

Color Munsell N 1 matte black

Painting plan 207N

Mounting B34D

| | | | |
|---|---|---|---|
| EXECUTED | HYBRISUSER | THREE PH. MOTOR ROLLED STEEL PREM. EFF. | PREVIEW |
| CHECKED | | FRAME W56C IP55 TEFC | WDD 00 |
| RELEASED | | | |
| REL. DATE | | WMO Jaragua do Sul Product Engineering | SHEET 1 / 1 |

0.25 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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