# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Standard Efficiency Three-Phase  Product code : 12805246

| | | | |
|---|---|---|---|
| Frame | : 56HC | Cooling method | : IC411 - TEFC |
| Insulation class | : F | Mounting | : F-1 |
| Duty cycle | : Cont.(S1) | Rotation[1] | : Both (CW and CCW) |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line |
| Altitude | : 1000 m.a.s.l. | Approx. weight[3] | : 14.7 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0041 kgm² |
| Design | : A | | |

| | | | | |
|---|---|---|---|---|
| Output [HP] | | 2 | 1.5 | 1.5 |
| Poles | | 2 | 2 | 2 |
| Frequency [Hz] | | 60 | 50 | 50 |
| Rated voltage [V] | | 230/460 | 190/380 | 220/415 |
| Rated current [A] | | 5.24/2.62 | 4.74/2.37 | 4.34/2.30 |
| L. R. Amperes [A] | | 40.3/20.2 | 39.3/19.7 | 39.0/20.7 |
| LRC [A] | | 7.7x(Code K) | 8.3x(Code K) | 9.0x(Code L) |
| No load current [A] | | 2.07/1.04 | 2.04/1.02 | 2.19/1.16 |
| Rated speed [RPM] | | 3475 | 2890 | 2900 |
| Slip [%] | | 3.47 | 3.67 | 3.33 |
| Rated torque [kgfm] | | 0.418 | 0.377 | 0.375 |
| Locked rotor torque [%] | | 229 | 270 | 310 |
| Breakdown torque [%] | | 290 | 320 | 350 |
| Service factor | | | 1.15 | 1.15 |
| Temperature rise | | 80 K | 80 K | 80 K |
| Locked rotor time | | 19s (cold) 11s (hot) | 25s (cold) 14s (hot) | 21s (cold) 12s (hot) |
| Noise level[2] | | 68.0 dB(A) | 65.0 dB(A) | 65.0 dB(A) |
| Efficiency (%) | 25% | 73.9 | 75.7 | 74.0 |
| | 50% | 75.5 | 76.3 | 75.1 |
| | 75% | 78.5 | 79.2 | 78.7 |
| | 100% | 80.0 | 79.4 | 79.5 |
| Power Factor | 25% | 0.49 | 0.47 | 0.41 |
| | 50% | 0.76 | 0.74 | 0.68 |
| | 75% | 0.86 | 0.84 | 0.80 |
| | 100% | 0.90 | 0.89 | 0.87 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6204 ZZ | 6202 ZZ |
| Sealing | : | V'Ring | Without Bearing Seal |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | Mobil Polyrex EM | |

Foundation loads
Max. traction : 35 kgf
Max. compression : 49 kgf

Notes
USABLE @208V 5.79A SF 1.00 SFA 5.79A

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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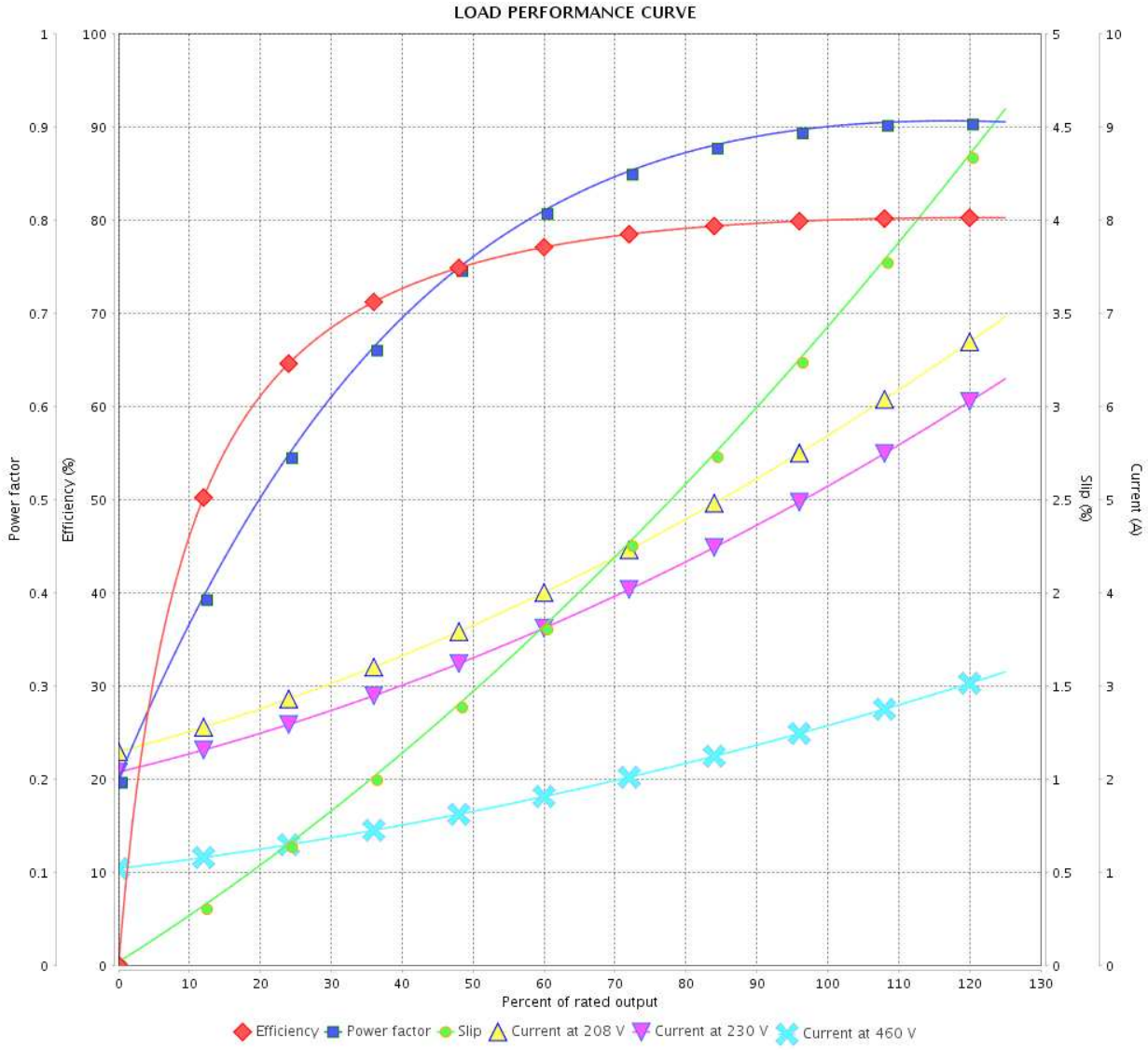
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| Checked by | | | Page | Revision |
| Date | 13/05/2022 | | 1 / 4 | |

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
| Customer | : | | |
| Product line | : Standard Efficiency Three-Phase | Product code : | 12805246 |




| | | | |
|---|---|---|---|
| Performance | : 230/460 V 60 Hz 2P | | |
| Rated current | : 5.24/2.62 A | Moment of inertia (J) | : 0.0041 kgm² |
| LRC | : 7.7 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.418 kgfm | Insulation class | : F |
| Locked rotor torque | : 229 % | Service factor | : |
| Breakdown torque | : 290 % | Temperature rise | : 80 K |
| Rated speed | : 3475 rpm | Design | : A |

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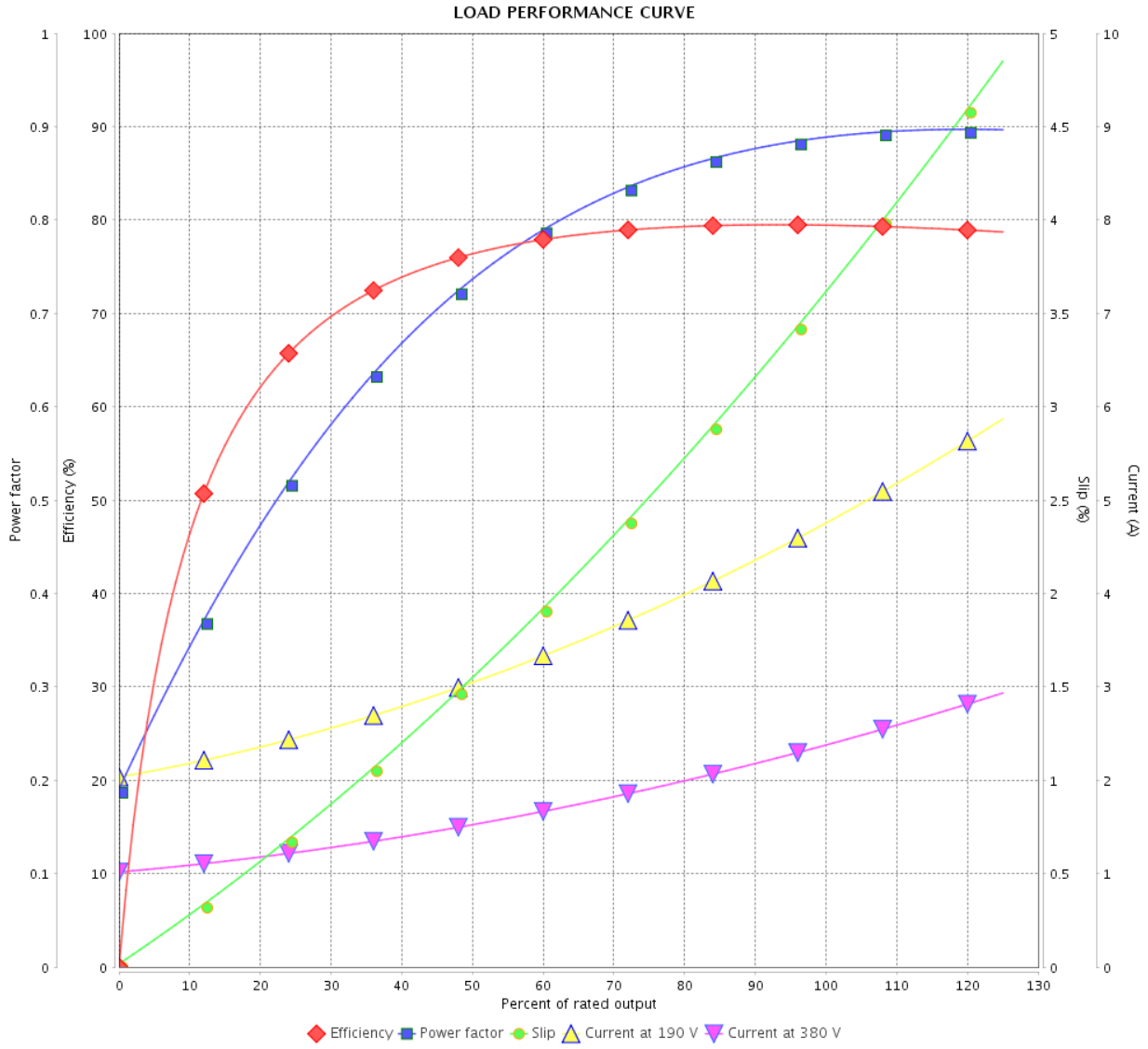
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

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| Customer | : | | |
| Product line | : Standard Efficiency Three-Phase | Product code : | 12805246 |




| | | | |
|---|---|---|---|
| Performance | : 190/380 V 50 Hz 2P | | |
| Rated current | : 4.74/2.37 A | Moment of inertia (J) | : 0.0041 kgm² |
| LRC | : 8.3 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.377 kgfm | Insulation class | : F |
| Locked rotor torque | : 270 % | Service factor | : 1.15 |
| Breakdown torque | : 320 % | Temperature rise | : 80 K |
| Rated speed | : 2890 rpm | Design | : A |

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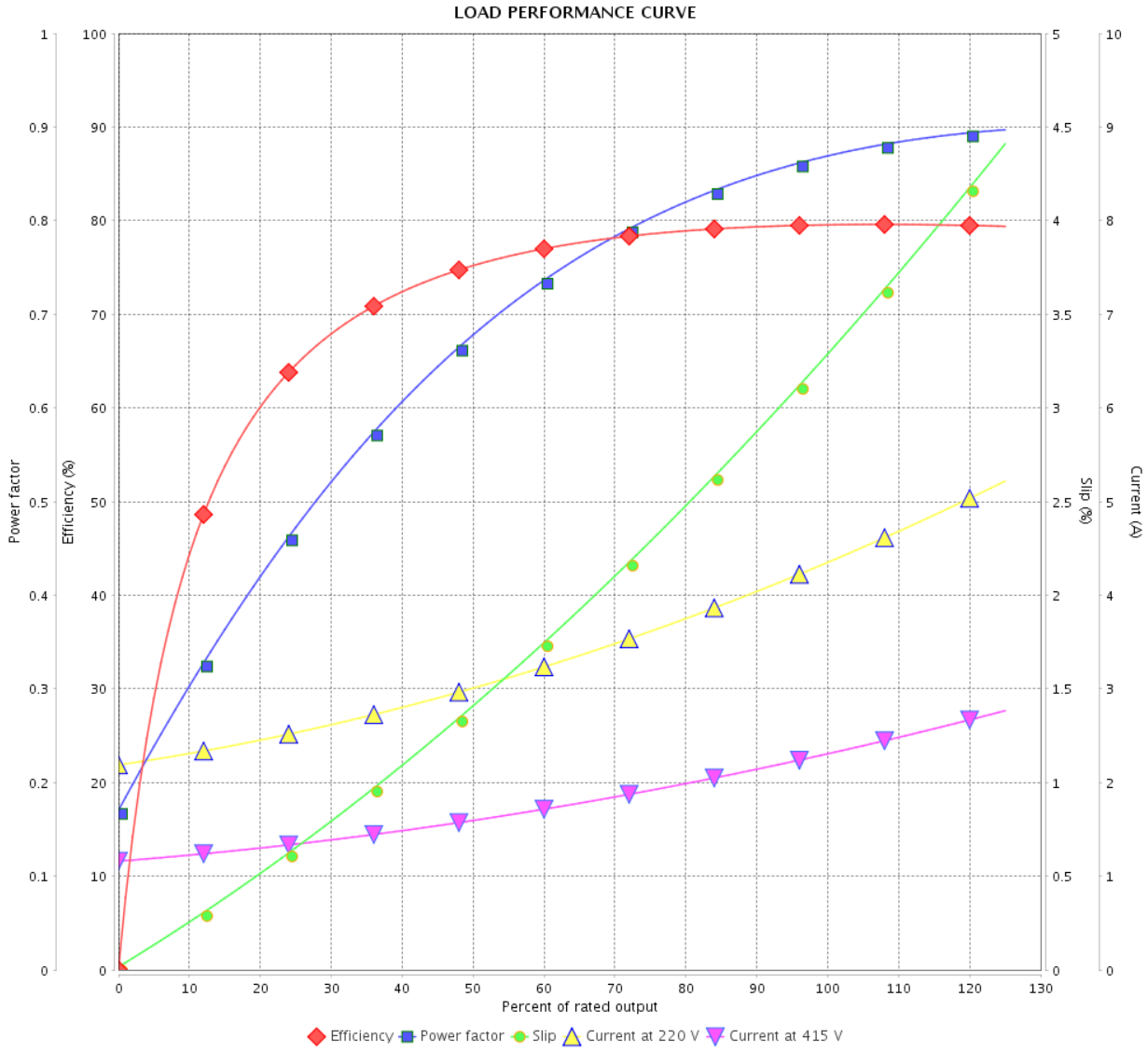
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# LOAD PERFORMANCE CURVE

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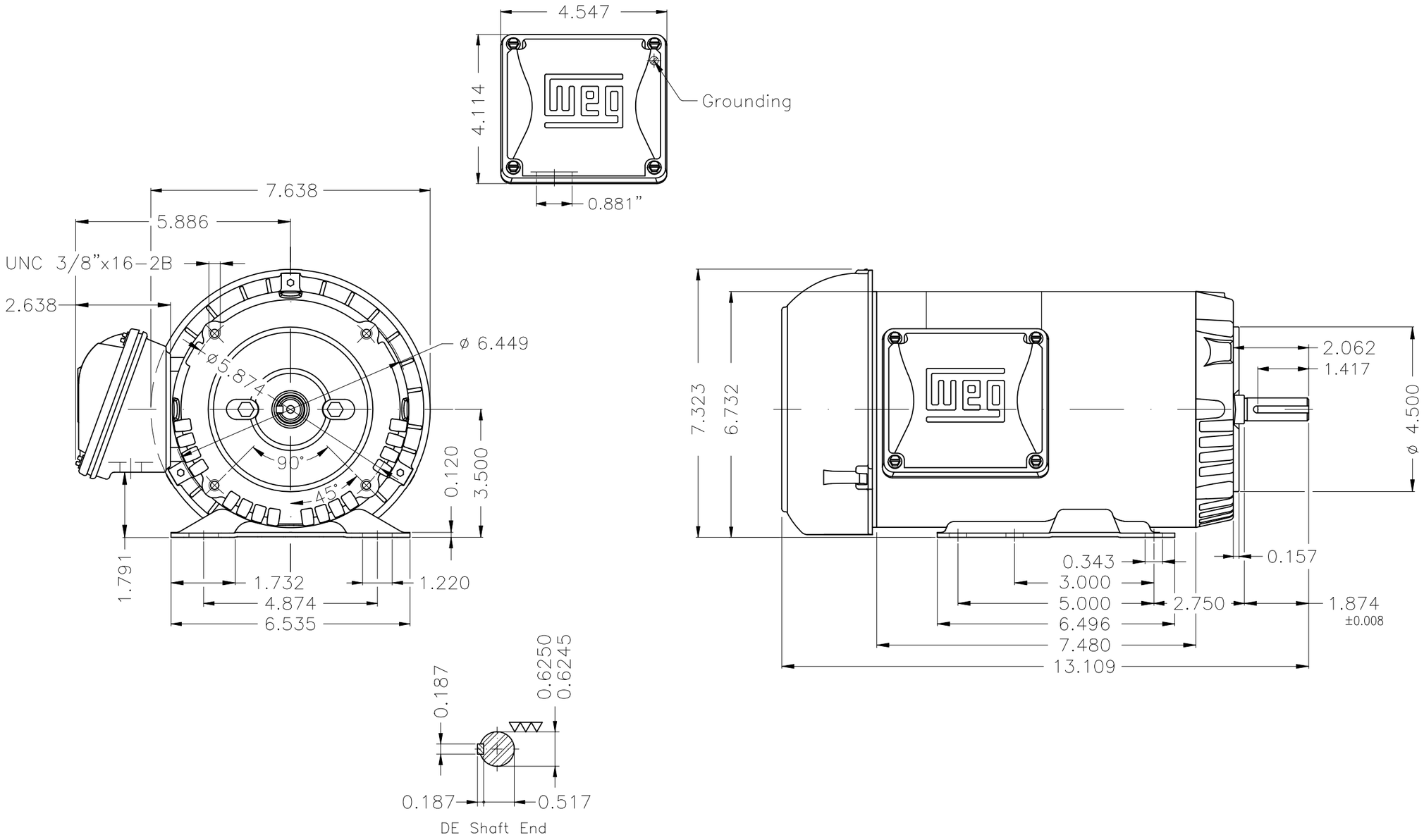



| | | | |
|---|---|---|---|
| Performance | : 220/415 V 50 Hz 2P | | |
| Rated current | : 4.34/2.30 A | Moment of inertia (J) | : 0.0041 kgm² |
| LRC | : 9.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.375 kgfm | Insulation class | : F |
| Locked rotor torque | : 310 % | Service factor | : 1.15 |
| Breakdown torque | : 350 % | Temperature rise | : 80 K |
| Rated speed | : 2900 rpm | Design | : A |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
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Color Munsell N 1 matte black

Painting plan 207N

Mounting B34D

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

| | | | |
|---|---|---|---|
| EXECUTED | HYBRISUSER | THREE PH. MOTOR ROLLED STEEL | PREVIEW |
| CHECKED | | FRAME 56HC IP55 TEFC | WDD 00 |
| RELEASED | | | |
| REL. DATE | | WMO Jaragua do Sul Product Engineering | SHEET 1 / 1 |

2 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3

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