# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage

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

| | | | |
|---|---|---|---|
| Product line | : Jet Pump - J type Single-Phase | Product code : | 14699317 |

| | | | |
|---|---|---|---|
| Frame | : 56J | Cooling method | : IC411 - TEFC |
| Insulation class | : F | Mounting | : F-1 |
| Duty cycle | : Cont.(S1) | Rotation[1] | : CCW |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line |
| Altitude | : 1000 m.a.s.l. | Approx. weight[3] | : 18.6 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0033 kgm² |
| Design | : L | | |

| | | |
|---|---|---|
| Output [HP] | | 2 |
| Poles | | 2 |
| Frequency [Hz] | | 60 |
| Rated voltage [V] | | 115/208-230 |
| Rated current [A] | | 16.6/9.00-8.32 |
| L. R. Amperes [A] | | 138/74.7-69.1 |
| LRC [A] | | 8.3x(Code J) |
| No load current [A] | | 3.60/1.55-1.80 |
| Rated speed [RPM] | | 3500 |
| Slip [%] | | 2.78 |
| Rated torque [kgfm] | | 0.415 |
| Locked rotor torque [%] | | 240 |
| Breakdown torque [%] | | 270 |
| Service factor | | |
| Temperature rise | | 80 K |
| Locked rotor time | | 16s (cold) 9s (hot) |
| Noise level[2] | | 68.0 dB(A) |
| Efficiency (%) | 25% | |
| | 50% | 74.0 |
| | 75% | 80.0 |
| | 100% | 82.5 |
| Power Factor | 25% | |
| | 50% | 0.93 |
| | 75% | 0.94 |
| | 100% | 0.95 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6203 2RS | 6202 2RS |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | Mobil Polyrex EM | |

Foundation loads

Max. traction : 26 kgf

Max. compression : 45 kgf

Notes

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 |
|---|---|---|---|---|
| | | | | |

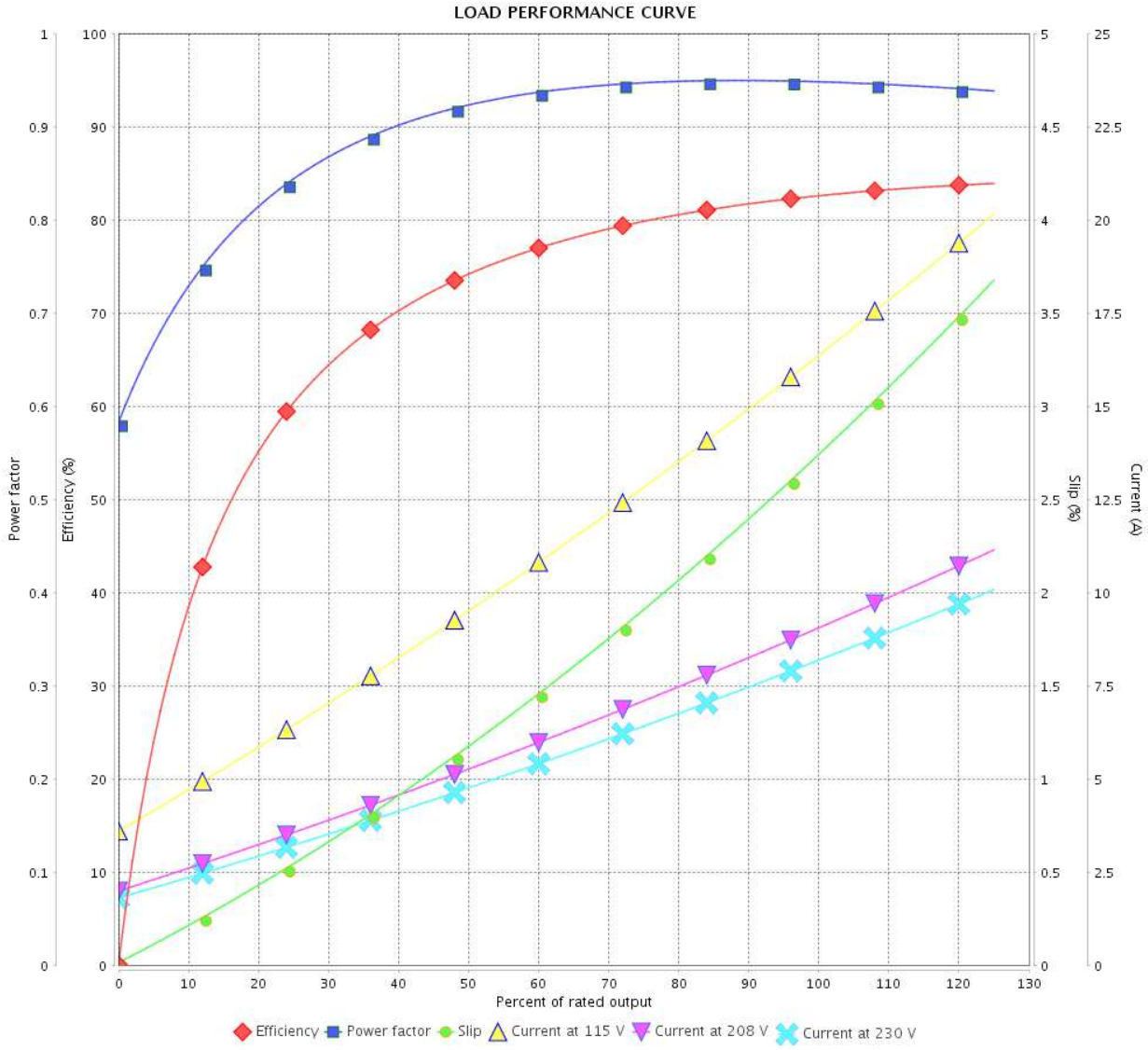
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| Checked by | | | Page | Revision |
| Date | 17/05/2022 | | 1 / 2 | |

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# LOAD PERFORMANCE CURVE

## Single Phase Induction Motor - Squirrel Cage

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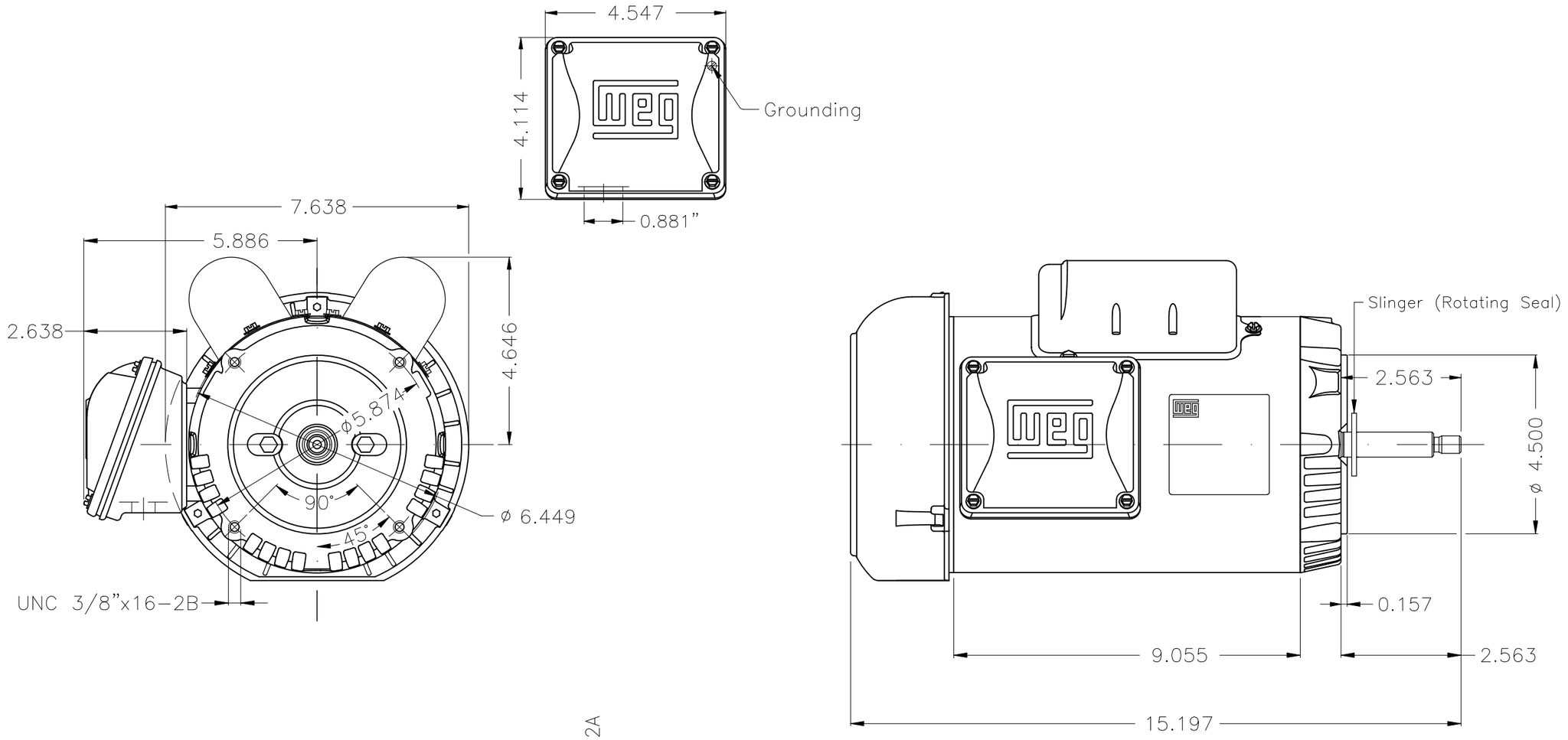


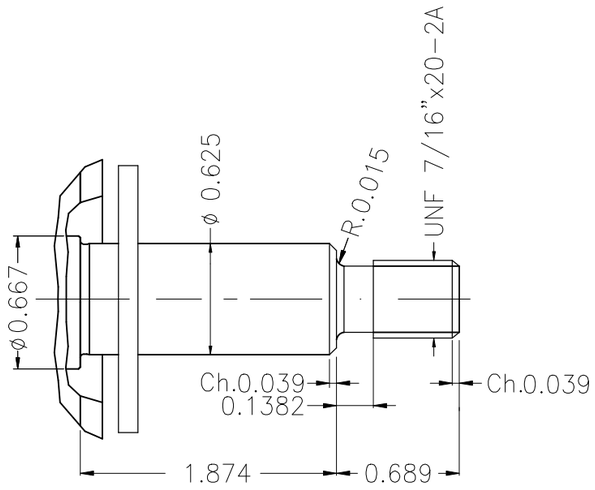

| | | | |
|---|---|---|---|
| Performance | : 115/208-230 V 60 Hz 2P | | |
| Rated current | : 16.6/9.00-8.32 A | Moment of inertia (J) | : 0.0033 kgm² |
| LRC | : 8.3 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.415 kgfm | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : |
| Breakdown torque | : 270 % | Temperature rise | : 80 K |
| Rated speed | : 3500 rpm | Design | : L |

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

Painting plan 207N

Mounting F-1/B14R(D)

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

| | | | |
|---|---|---|---|
| EXECUTED | HYBRISUSER | SINGLE PH. MOTOR ROLLED STEEL JET PUMP THREADED PREM.EFF. | PREVIEW |
| CHECKED | | FRAME 56J 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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