# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage

**WEG**

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

| Product line | : Rolled Steel 00021 Single-Phase Split Phase | Product code : | 15515037 |
|---|---|---|---|
| | | Catalog # : | .5018AS1BRBPFW56-S |

| | | | |
|---|---|---|---|
| Frame | : W56 | Locked rotor time | : 7s (cold) 4s (hot) |
| Output | : 0.5 HP (0.37 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 115/208-230 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 6.96/3.87-3.48 A | Protection degree | : IP55 |
| L. R. Amperes | : 52.2/29.0-26.1 A | Cooling method | : IC418 - TEAO |
| LRC | : 7.5x(Code N) | Mounting | : F-1 |
| No load current | : 4.75/3.00-2.38 A | Rotation[1] | : Both (CW and CCW) |
| Rated speed | : 1720 rpm | Starting method | : Direct On Line |
| Slip | : 4.44 % | Approx. weight[3] | : 11.0 kg |
| Rated torque | : 0.211 kgfm | | |
| Locked rotor torque | : 130 % | | |
| Breakdown torque | : 220 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.0023 kgm² | | |

| Output | 25% | 50% | 75% | 100% | Foundation loads | |
|---|---|---|---|---|---|---|
| Efficiency (%) | 0.000 | 58.0 | 64.0 | 66.0 | Max. traction | : 9 kgf |
| Power Factor | 0.00 | 0.52 | 0.62 | 0.70 | Max. compression | : 20 kgf |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6203 ZZ | 6202 ZZ |
| Sealing | : | V'Ring | Without Bearing Seal |
| Lubrication interval | : | 0 h | 0 h |
| Lubricant amount | : | 0 g | 0 g |
| Lubricant type | : | Mobil Polyrex EM | |

**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 |
|---|---|---|---|---|
| | | | | |

| Performed by | | | | |
|---|---|---|---|---|
| Checked by | | | Page | Revision |
| Date | 22/06/2023 | | 1 / 2 | |

# LOAD PERFORMANCE CURVE

## Single Phase Induction Motor - Squirrel Cage

**WEG**

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

| | | | | |
|---|---|---|---|---|
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**LOAD PERFORMANCE CURVE**

Legend: ◆ Efficiency ■ Power factor ● Slip △ Current at 115 V ▽ Current at 208 V ✕ Current at 230 V

X-axis: Percent of rated output
Y-axes: Power factor / Efficiency (%) / Slip (%) / Current (A)
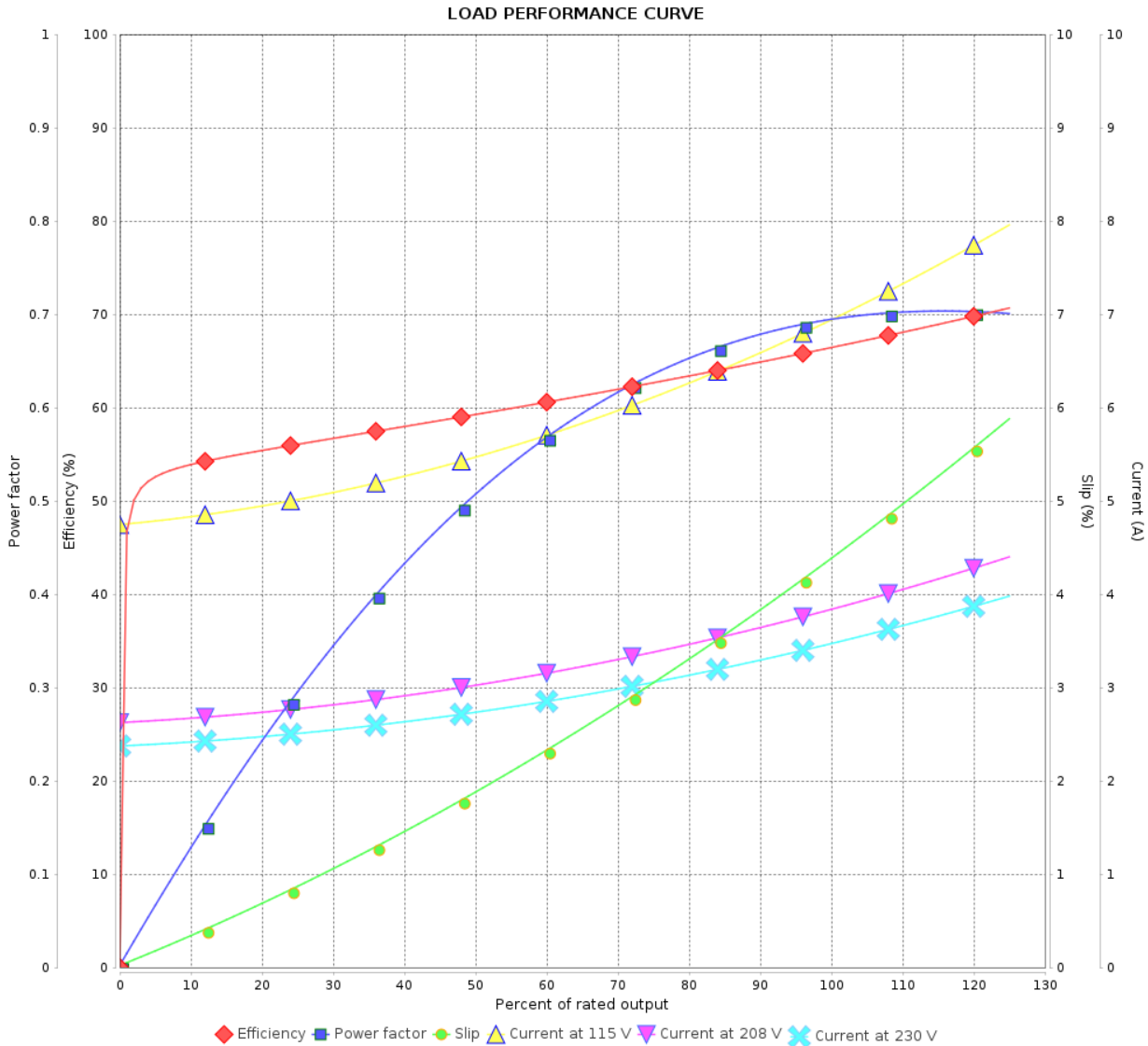
| Performance | : 115/208-230 V 60 Hz 4P | | |
|---|---|---|---|
| Rated current | : 6.96/3.87-3.48 A | Moment of inertia (J) | : 0.0023 kgm² |
| LRC | : 7.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.211 kgfm | Insulation class | : F |
| Locked rotor torque | : 130 % | Service factor | : 1.25 |
| Breakdown torque | : 220 % | Temperature rise | : 80 K |
| Rated speed | : 1720 rpm | | |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | |
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| Performed by | | | | |
|---|---|---|---|---|
| Checked by | | | Page | Revision |
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| | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|

**EJE/SHAFT**

| | | |
|---|---|---|
| ESTÁNDAR/STANDARD | X | |
| OPCIONAL/OPTIONAL | | |
| ESPECIAL/SPECIAL | | |

Dimensiones en pulgadas
Dimensions in inches

THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.

5.669

NPT 1/2"

0.104

3.500

1.641

4.874

6.535

1.220

Warning Label

Slinger (Rotating Seal)

Grounding

6.310

1.417

0.343

3.000

4.134

7.086

11.318

2.750

1.874

0.187

0.6250
0.6245

0.187 — 0.517
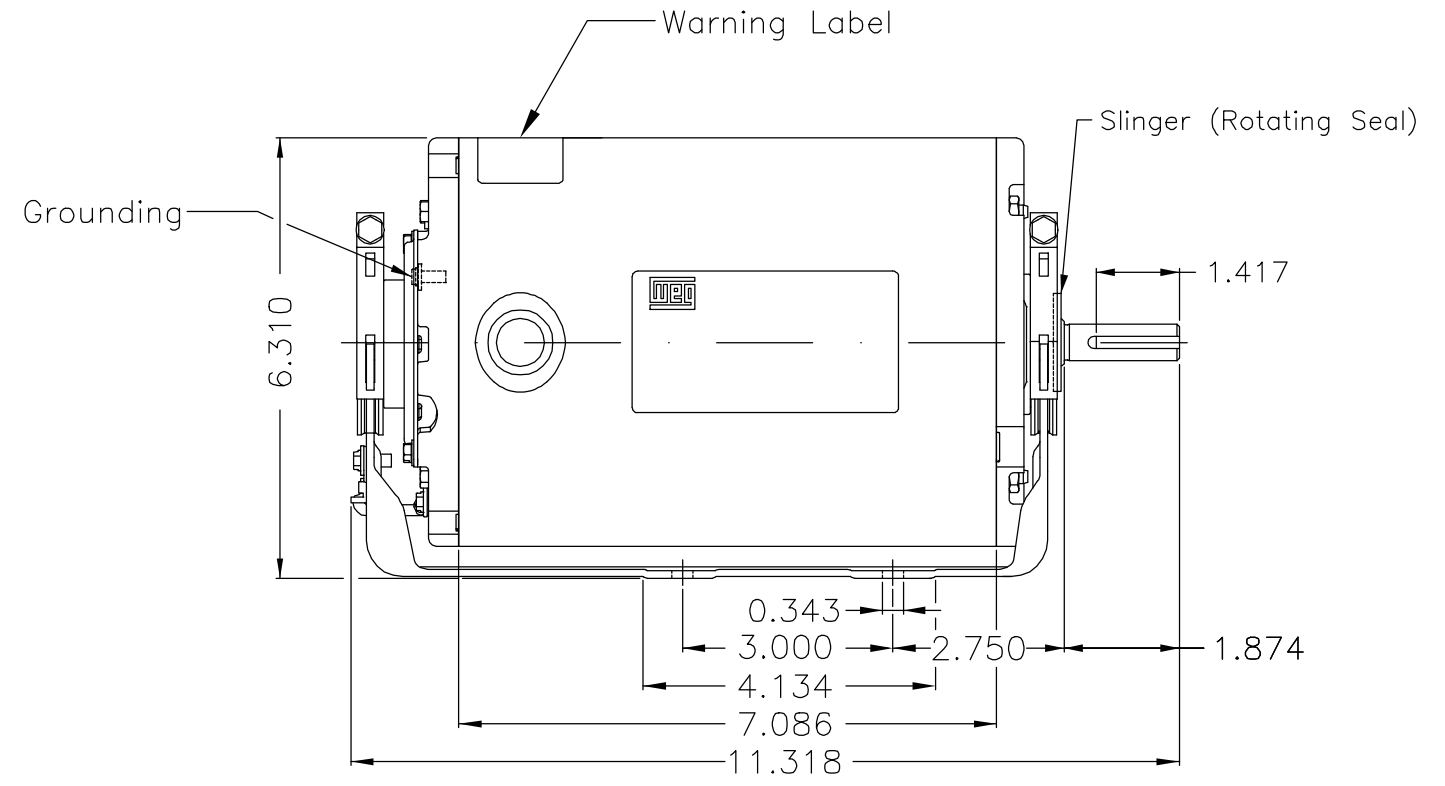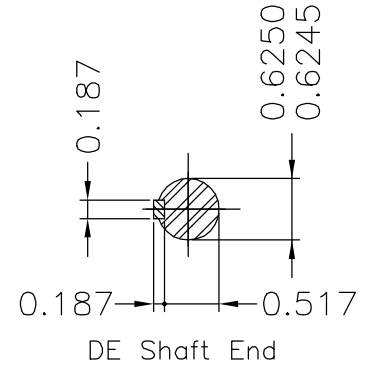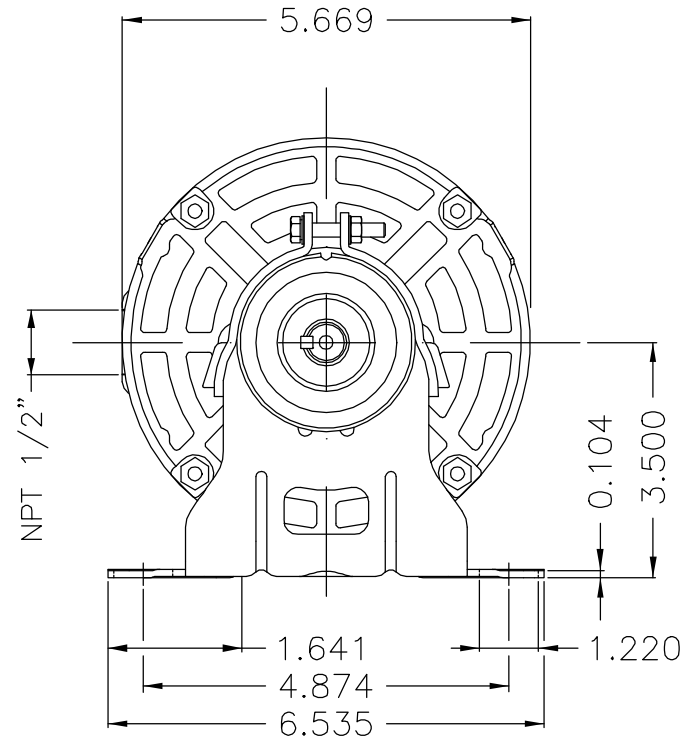
DE Shaft End

| Indicación de etiqueta de advertencia/Indicating warning label |
|---|
| Protector térmico fenólico – Automático / Phenolic thermal protector – automatic |
| Anillo de goma en la punta del eje / Slinger ring on shaft end |
| Color Munsell N 1 negro mate / Color Munsell N 1 matte black |
| Plan de pintura  207N / Painting plan 207N |
| Forma constructiva B3D / Mounting F-1/B3R(D) |

**WEG ELECTRIC CORPORATION - WEC**

OV: 50624162

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 500001803096 | | CHANGE OF STATUS | | EJESUS | ISAAVEDRA | ISAAVEDRA | 12.08.2020 | 02 |
| 500001803096 | | UPDATING ACCORDING TO CLAIM 417429135 | | EJESUS | HERNANDEZA | HERNANDEZA | 12.08.2020 | 01 |
| ECM | LOC | SUMMARY OF MODIFICATIONS | | EXECUTED | CHECKED | RELEASED | DATE | VER |

| | | | | |
|---|---|---|---|---|
| EXECUTED | HERNANDEZA | | SINGLE PHASE MOTOR CLOSED ROLLED STEEL FRAME W56 IP55 TEAO | 10007696684 |
| CHECKED | MORALESR | | | |
| RELEASED | MORALESR | | | 000 \| 02 |
| REL DT | 15.06.2020 | WMX | Huehuetoca | Product Engineering |

0.5 HP     04 Poles     60Hz     417346762

A

SHEET 1 / 1

WEG