# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage

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

| | | | |
|---|---|---|---|
| Product line | : Single-Phase | Product code : | 13386541 |

| | | | |
|---|---|---|---|
| Frame | : W56C | 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] | : 9.7 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0020 kgm² |
| Design | : N | | |

| | | |
|---|---|---|
| Output [HP] | | 0.5 |
| Poles | | 4 |
| Frequency [Hz] | | 60 |
| Rated voltage [V] | | 115/208-230 |
| Rated current [A] | | 8.00/4.42-4.00 |
| L. R. Amperes [A] | | 45.6/25.2-22.8 |
| LRC [A] | | 5.7x(Code M) |
| No load current [A] | | 6.60/2.85-3.30 |
| Rated speed [RPM] | | 1730 |
| Slip [%] | | 3.89 |
| Rated torque [kgfm] | | 0.210 |
| Locked rotor torque [%] | | 320 |
| Breakdown torque [%] | | 270 |
| Service factor | | |
| Temperature rise | | 80 K |
| Locked rotor time | | 18s (cold) 10s (hot) |
| Noise level[2] | | 52.0 dB(A) |
| Efficiency (%) | 25% | |
| | 50% | 52.0 |
| | 75% | 59.0 |
| | 100% | 64.0 |
| Power Factor | 25% | |
| | 50% | 0.44 |
| | 75% | 0.54 |
| | 100% | 0.63 |

| | | 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 : 13 kgf

Max. compression : 22 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 |
|---|---|---|---|---|
| | | | | |

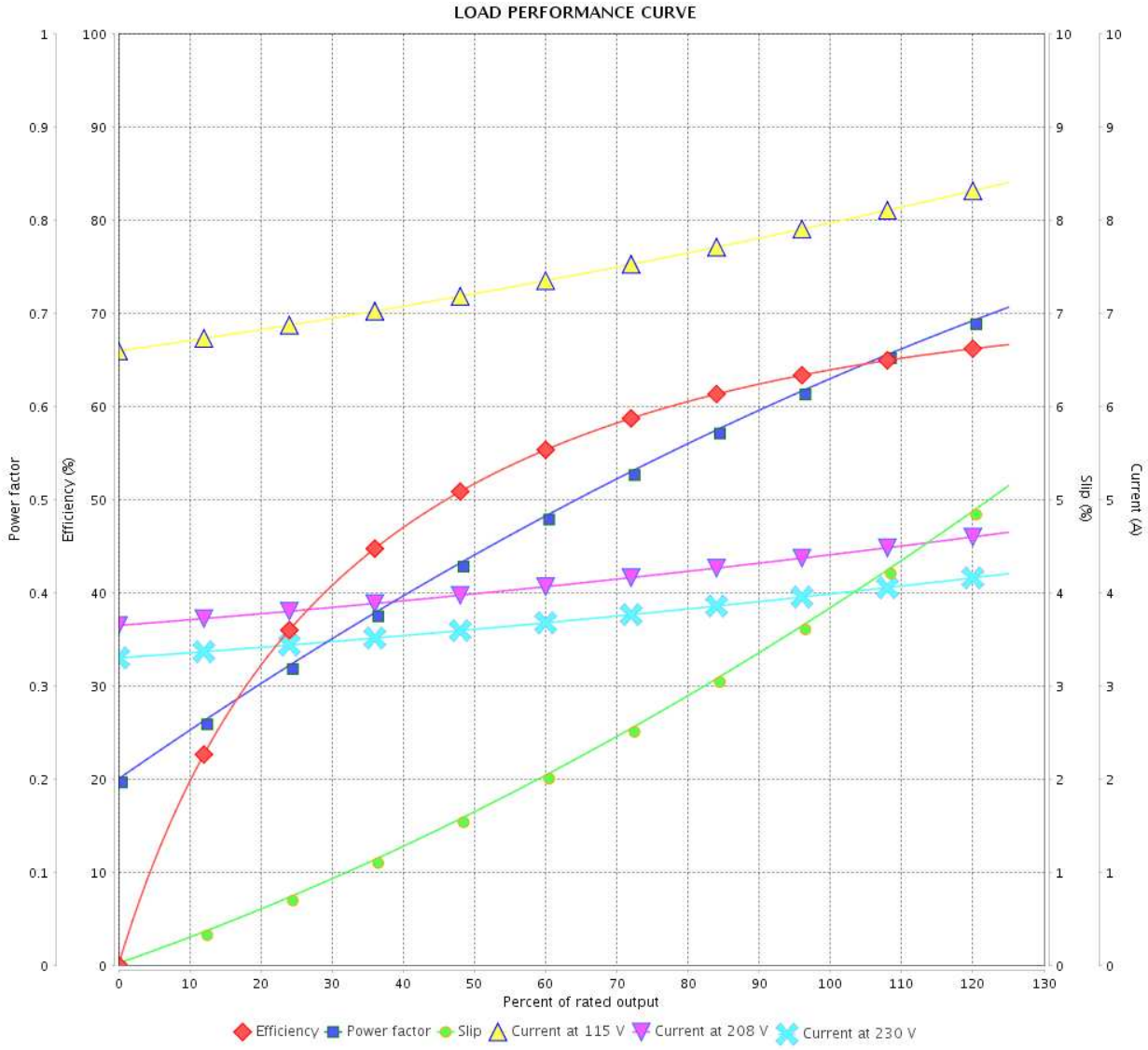
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| Checked by | | | Page | Revision |
| Date | 13/05/2022 | | 1 / 2 | |

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# LOAD PERFORMANCE CURVE

## Single Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
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| Product line | : Single-Phase | Product code : | 13386541 |

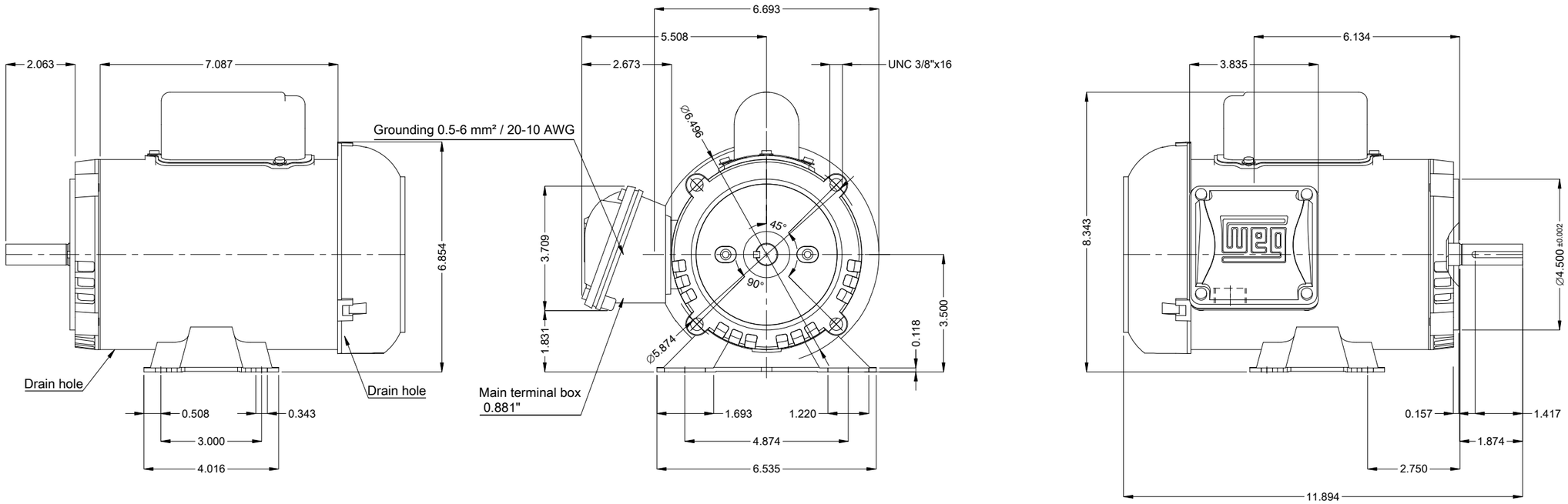



| | | | |
|---|---|---|---|
| Performance | : 115/208-230 V 60 Hz 4P | | |
| Rated current | : 8.00/4.42-4.00 A | Moment of inertia (J) | : 0.0020 kgm² |
| LRC | : 5.7 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.210 kgfm | Insulation class | : F |
| Locked rotor torque | : 320 % | Service factor | : |
| Breakdown torque | : 270 % | Temperature rise | : 80 K |
| Rated speed | : 1730 rpm | Design | : N |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
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| | | | | | | | | |
| | | | | | | | | |
| | | | | HYBRISUSER | | | | 00 |
| ECM | LOC | SUMMARY OF MODIFICATIONS | | EXECUTED | CHECKED | RELEASED | DATE | VER |

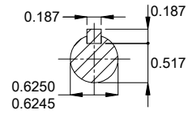
| | | | |
|---|---|---|---|
| EXECUTED | HYBRISUSER | SINGLE PH. MOTOR ROLLED STEEL | PREVIEW |
| CHECKED | | FRAME W56C IP55 TEFC | WDD 00 |
| RELEASED | | | SHEET 1 / 1 |
| REL. DATE | | | |

0.5 HP 04 Poles 60 Hz | A

Scale 2 : 7

Design N
Color Munsell N 1 matte black
Painting plan 207N
Mounting MARKET F-1/B34R(D)
Mounting B34D

DE Shaft End




Dimensions in inches

A3

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