# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

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

| | | | |
|---|---|---|---|
| Product line | : NEMA Premium Efficiency Three-Phase | Product code : | 12675401 |

| | | | |
|---|---|---|---|
| Frame | : 143/5T | 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] | : 19.5 kg |
| Protection degree | : IP55 | Moment of inertia (J) | : 0.0055 kgm² |
| Design | : B | | |

| | | |
|---|---|---|
| Output [HP] | | 2 |
| Poles | | 4 |
| Frequency [Hz] | | 60 |
| Rated voltage [V] | | 575 |
| Rated current [A] | | 2.18 |
| L. R. Amperes [A] | | 17.8 |
| LRC [A] | | 8.2x(Code K) |
| No load current [A] | | 1.12 |
| Rated speed [RPM] | | 1745 |
| Slip [%] | | 3.06 |
| Rated torque [kgfm] | | 0.832 |
| Locked rotor torque [%] | | 270 |
| Breakdown torque [%] | | 300 |
| Service factor | | 1.15 |
| Temperature rise | | 80 K |
| Locked rotor time | | 27s (cold) 15s (hot) |
| Noise level[2] | | 52.0 dB(A) |
| Efficiency (%) | 25% | |
| | 50% | 85.5 |
| | 75% | 87.5 |
| | 100% | 86.5 |
| Power Factor | 25% | |
| | 50% | 0.60 |
| | 75% | 0.73 |
| | 100% | 0.80 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6205 ZZ | 6203 ZZ |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | Mobil Polyrex EM | |

Foundation loads

Max. traction : 61 kgf

Max. compression : 81 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 |
|---|---|---|---|---|
| | | | | |

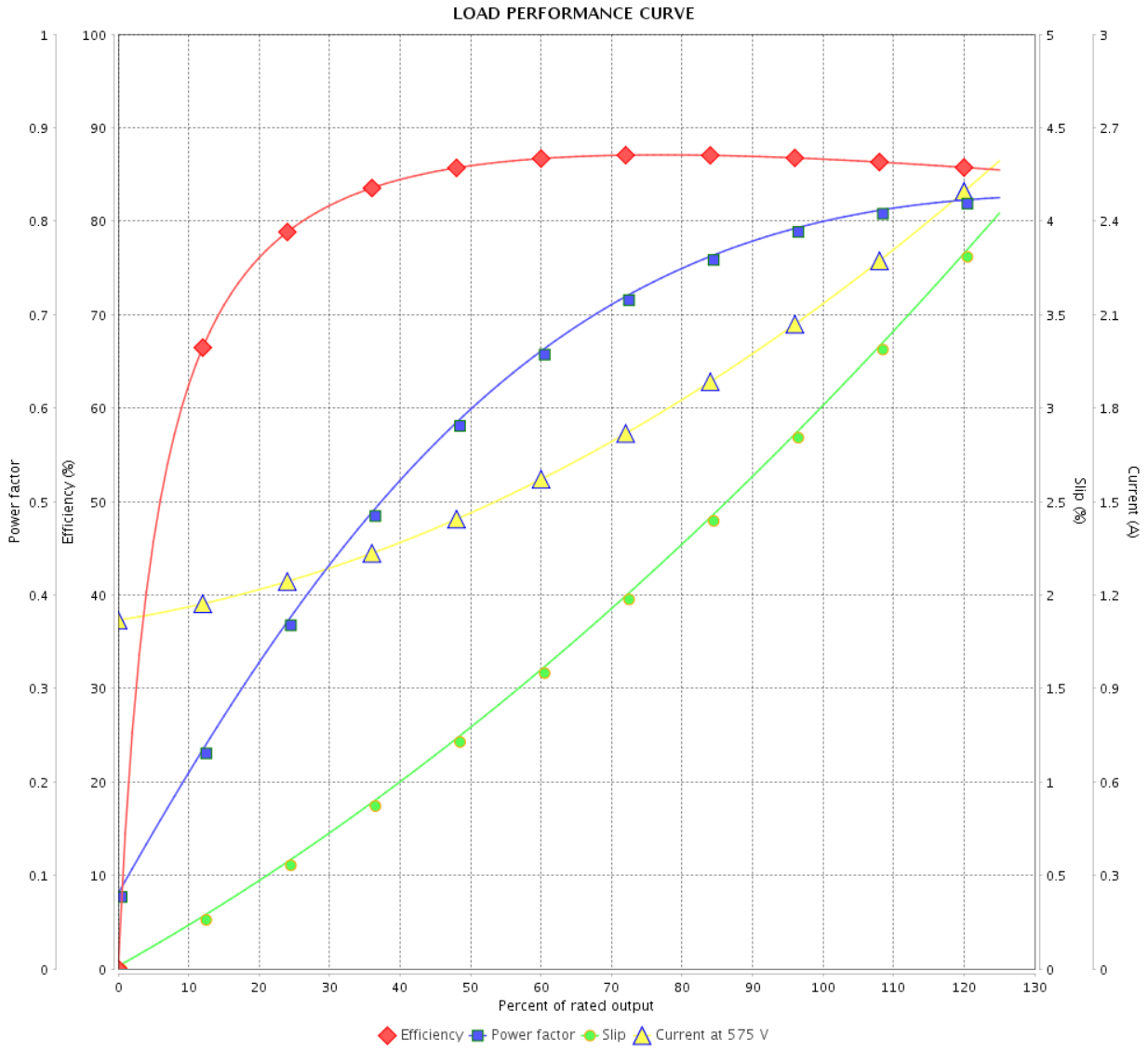
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| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 13/05/2022 | | 1 / 2 | |

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

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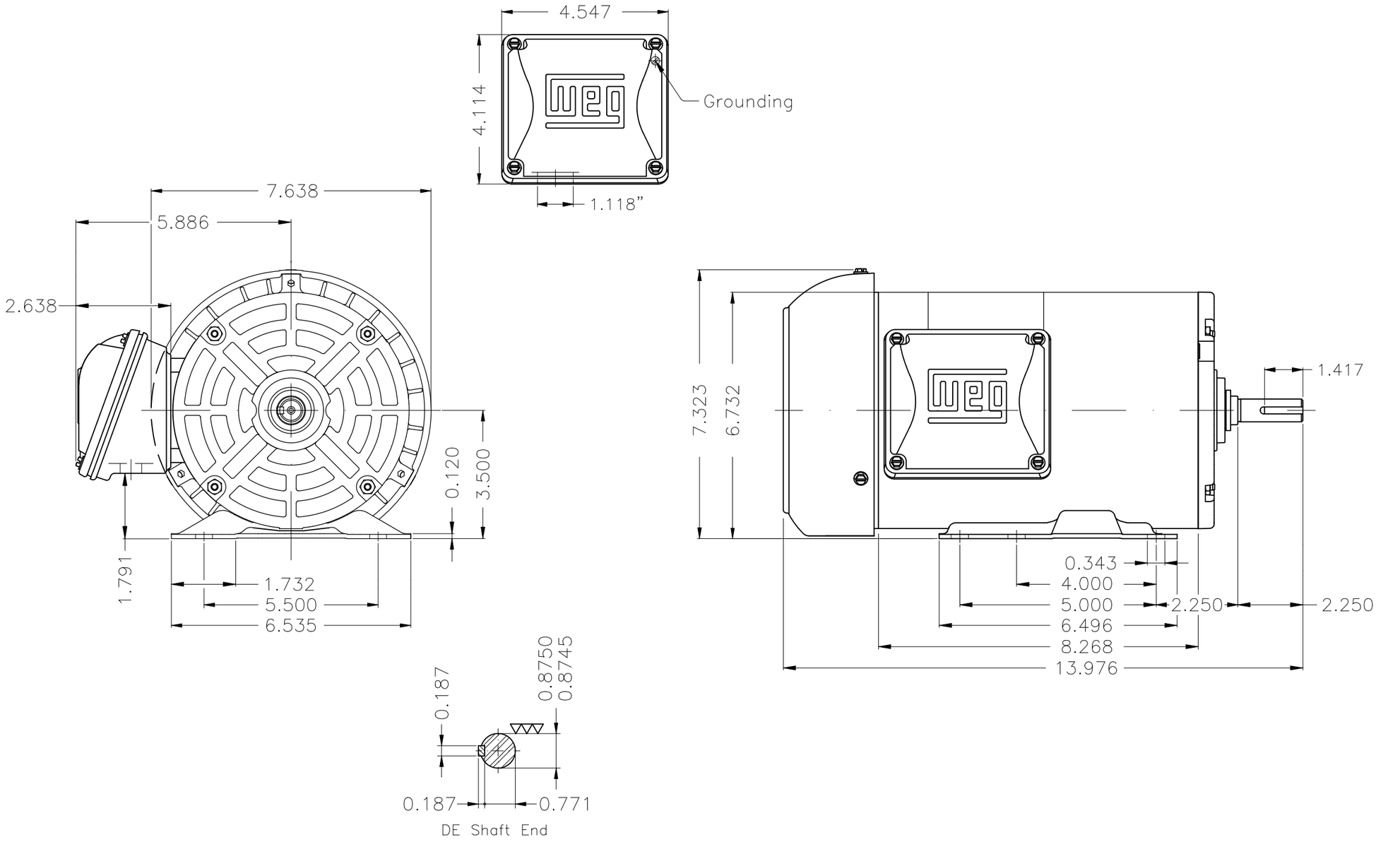



| | | | |
|---|---|---|---|
| Performance | : 575 V 60 Hz 4P | | |
| Rated current | : 2.18 A | Moment of inertia (J) | : 0.0055 kgm² |
| LRC | : 8.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.832 kgfm | Insulation class | : F |
| Locked rotor torque | : 270 % | Service factor | : 1.15 |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 1745 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | |

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|---|---|---|---|---|---|---|---|
| Fan cover - steel plate | | | | | | | |
| Color Munsell N 1 matte black | | | | | | | |
| Painting plan 207N | | | | | | | |
| Mounting F-1/B3R(D) | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | HYBRISUSER | | | | 00 |
| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |

| | | | | |
|---|---|---|---|---|
| EXECUTED | HYBRISUSER | THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF. | PREVIEW | |
| CHECKED | | FRAME 143/5T IP55 TEFC | WDD | 00 |
| RELEASED | | | | |
| REL. DATE | | WMO Jaragua do Sul Product Engineering | SHEET | 1 / 1 |

2 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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