# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

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

| | | | |
|---|---|---|---|
| Product line | : JM Pump NEMA Premium Efficiency Three-Phase | Product code : | 12682530 |

| | | | |
|---|---|---|---|
| Frame | : 143/5JM | Cooling method | : IC01 - ODP |
| 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] | : 19.8 kg |
| Design | : B | Moment of inertia (J) | : 0.0060 kgm² |

| | | |
|---|---|---|
| Output [HP] | | 1.5 |
| Poles | | 4 |
| Frequency [Hz] | | 60 |
| Rated voltage [V] | | 575 |
| Rated current [A] | | 1.66 |
| L. R. Amperes [A] | | 14.4 |
| LRC [A] | | 8.7x(Code L) |
| No load current [A] | | 0.958 |
| Rated speed [RPM] | | 1760 |
| Slip [%] | | 2.22 |
| Rated torque [kgfm] | | 0.619 |
| Locked rotor torque [%] | | 280 |
| Breakdown torque [%] | | 330 |
| Service factor | | 1.15 |
| Temperature rise | | 80 K |
| Locked rotor time | | 27s (cold) 15s (hot) |
| Noise level[2] | | 52.0 dB(A) |
| Efficiency (%) | 25% | 83.6 |
| | 50% | 84.0 |
| | 75% | 86.5 |
| | 100% | 86.5 |
| Power Factor | 25% | 0.32 |
| | 50% | 0.56 |
| | 75% | 0.69 |
| | 100% | 0.77 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6206 ZZ | 6203 ZZ |
| Sealing | : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | Mobil Polyrex EM | |

Foundation loads

Max. traction : 48 kgf

Max. compression : 68 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 |
|---|---|---|---|---|
| | | | | |

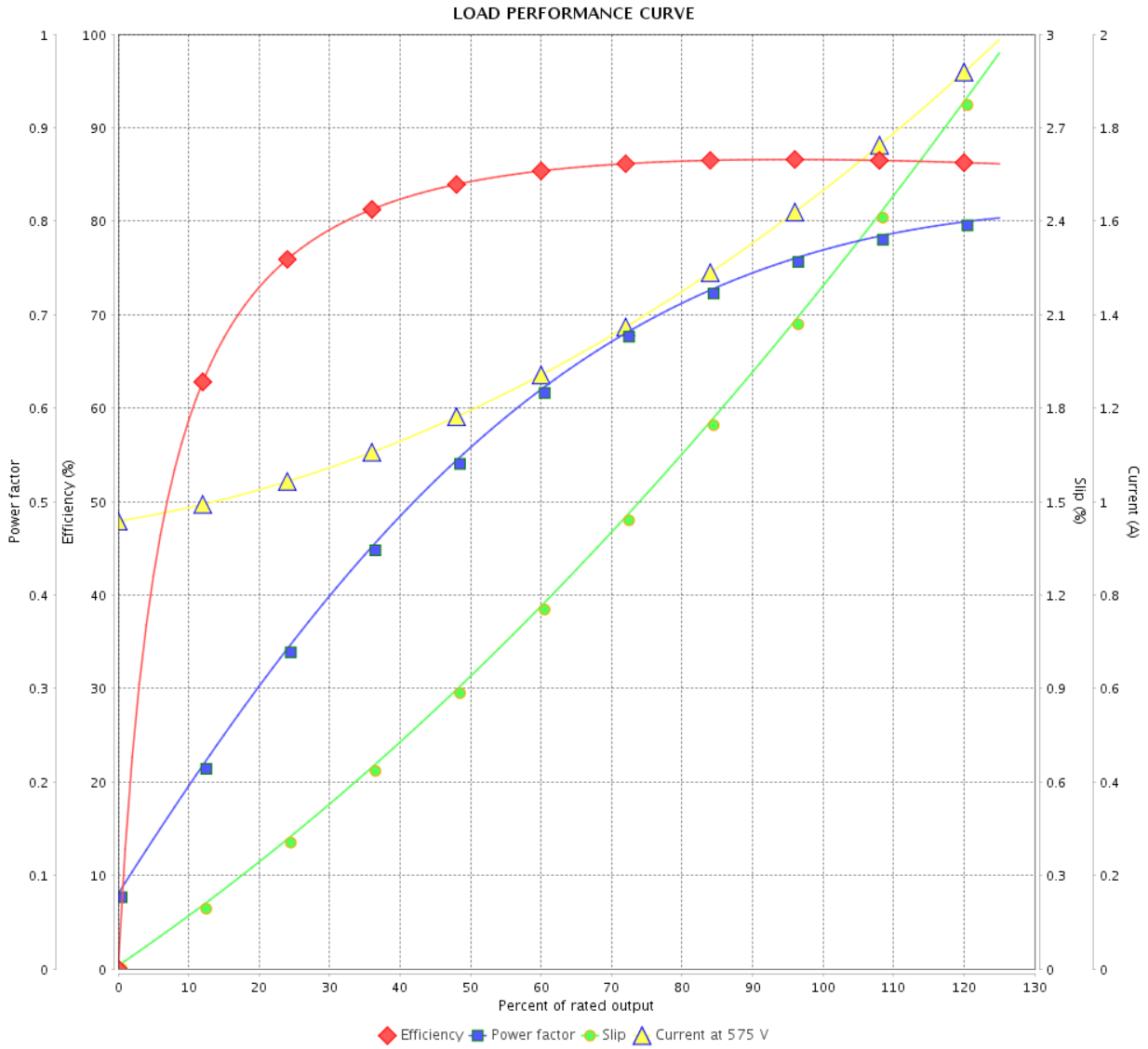
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| Checked by | | | Page | Revision |
| Date | 16/05/2022 | | 1 / 2 | |

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

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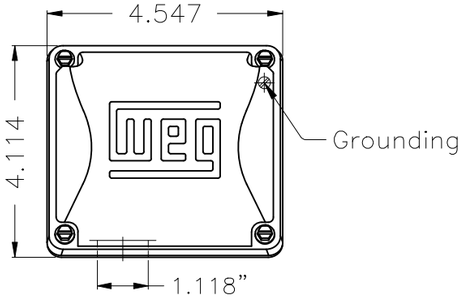


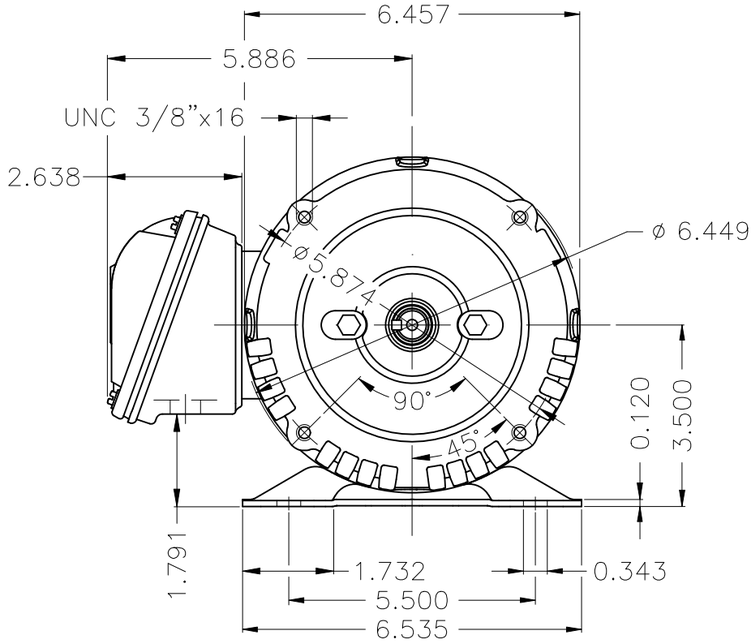

| | | | |
|---|---|---|---|
| Performance | : 575 V 60 Hz 4P | | |
| Rated current | : 1.66 A | Moment of inertia (J) | : 0.0060 kgm² |
| LRC | : 8.7 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.619 kgfm | Insulation class | : F |
| Locked rotor torque | : 280 % | Service factor | : 1.15 |
| Breakdown torque | : 330 % | Temperature rise | : 80 K |
| Rated speed | : 1760 rpm | Design | : B |

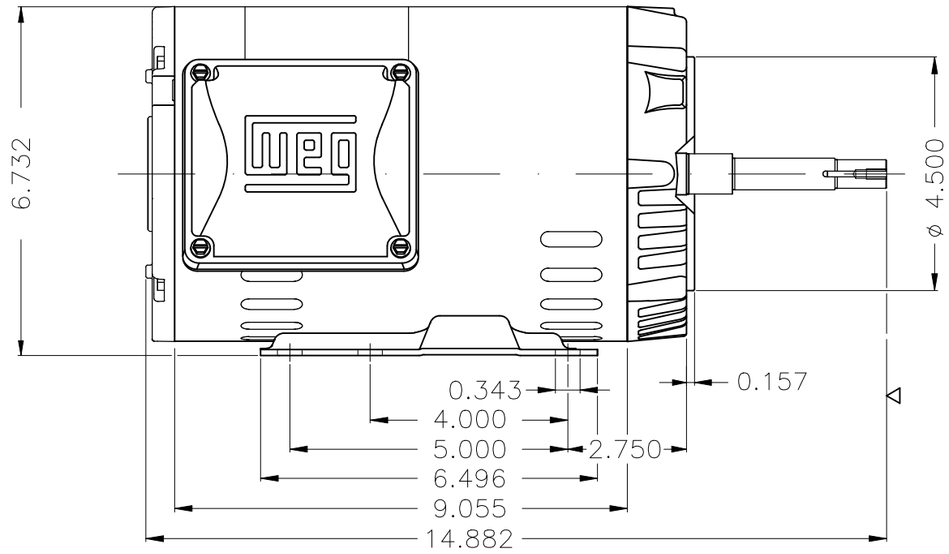
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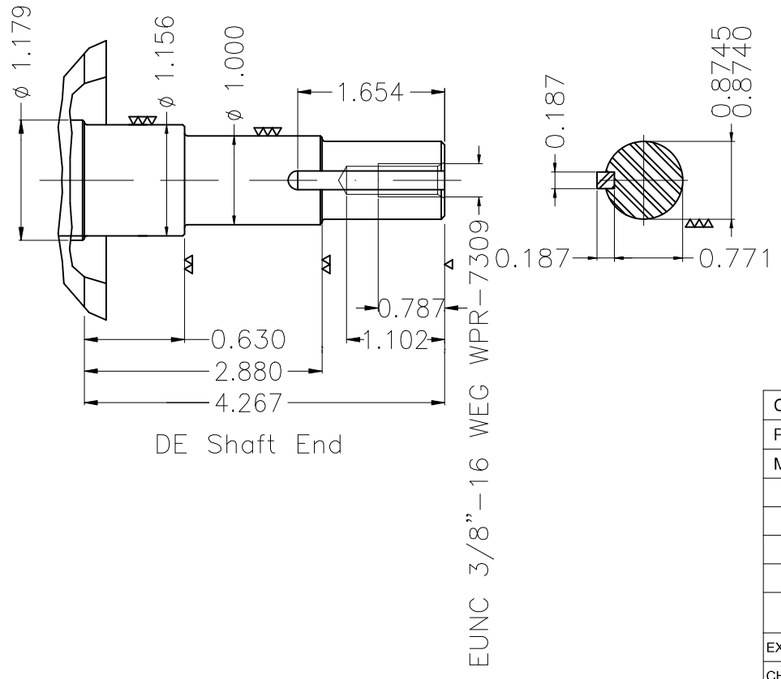
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| | |
|---|---|
| Color Munsell N 1 matte black | |
| Painting plan 207N | |
| Mounting B34D | |

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

| | | | | |
|---|---|---|---|---|
| EXECUTED | HYBRISUSER | THREE PH. MOTOR ROLLED STEEL JM NEMA PREM. EFF. | PREVIEW | |
| CHECKED | | FRAME 143/5JM IP21 ODP | WDD | 00 |
| RELEASED | | | | |
| REL. DATE | | WMO Jaragua do Sul Product Engineering | SHEET | 1 / 1 |

1.5 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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