# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

| | | | |
|---|---|---|---|
| Product line | : Saw Arbor Motor Standard Efficiency Three-Phase | Product code : | 14300941 |

| | | | |
|---|---|---|---|
| Frame | : 90L/MS | Locked rotor time | : 10s (cold) 6s (hot) |
| Output | : 10 HP (7.5 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : S6 |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 575 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 11.7 A | Protection degree | : IP54 |
| L. R. Amperes | : 100 A | Cooling method | : IC411 - TEFC |
| LRC | : 8.5 | Mounting | : B3R(D) |
| No load current | : 6.50 A | Rotation[1] | : CW |
| Rated speed | : 1715 rpm | Noise level[2] | : 55.0 dB(A) |
| Slip | : 4.72 % | Vibration | : A |
| Rated torque | : 4 kgfm | Starting method | : Direct On Line |
| Locked rotor torque | : 459 % | Approx. weight[3] | : 85.0 kg |
| Breakdown torque | : 450 % | Painting plan | : 207A (ISO 12944 - C3) |
| Insulation class | : F | Color | : RAL 7022 |
| Service factor | : 1.00 | Design | : N |
| Moment of inertia (J) | : 0.0168 kgm² | | |

| Output | 50% | 75% | 100% |
|---|---|---|---|
| Efficiency (%) | 84.5 | 85.5 | 85.5 |
| Power Factor | 0.54 | 0.67 | 0.75 |

Foundation loads

| | |
|---|---|
| Max. traction | : 433 kgf |
| Max. compression | : 518 kgf |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6308 ZZ | 6208 ZZ |
| Sealing | : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| 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 |
|---|---|---|---|---|
| | | | | |

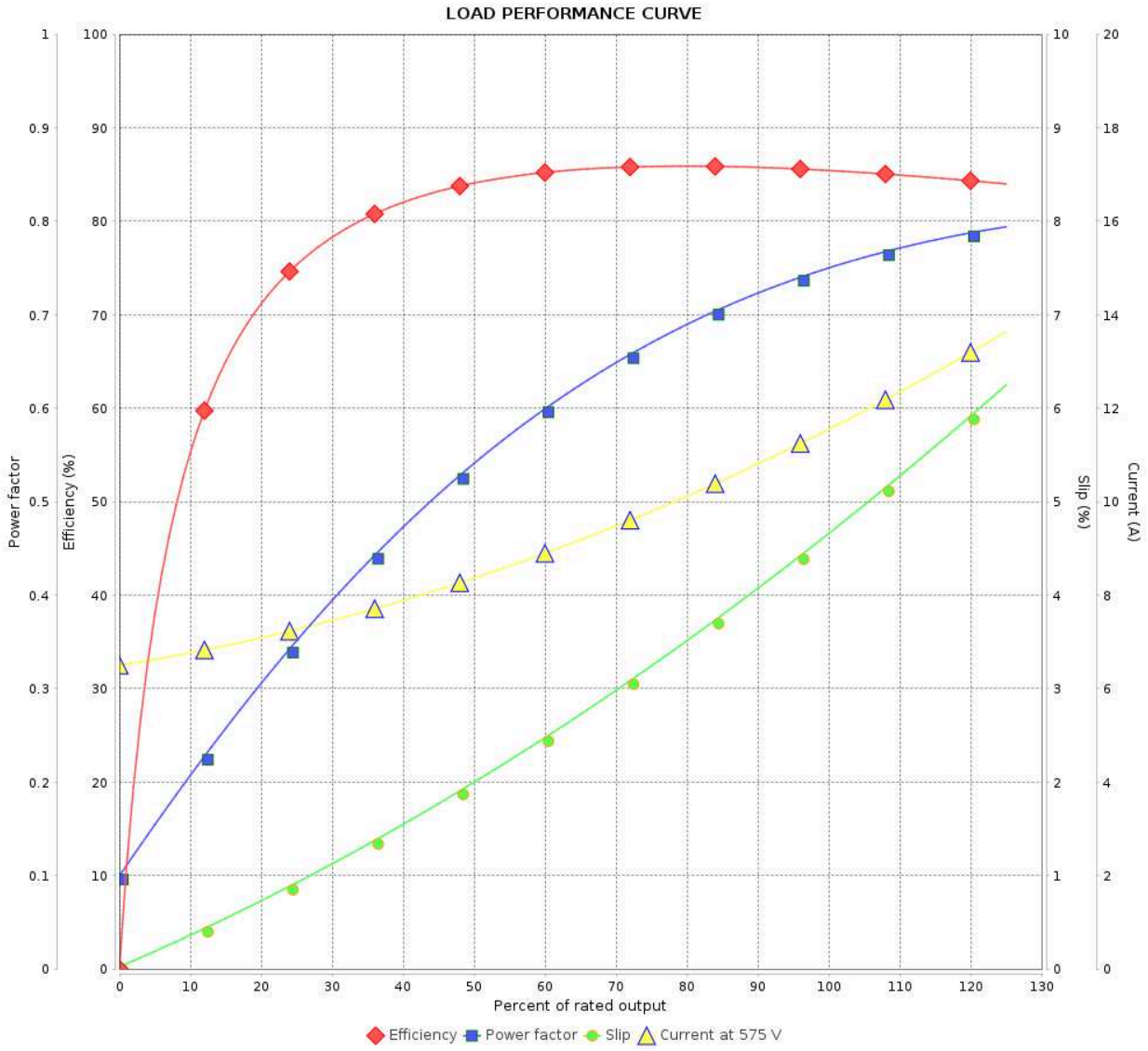
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| Date | 14/10/2026 | | 1 / 2 | |

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

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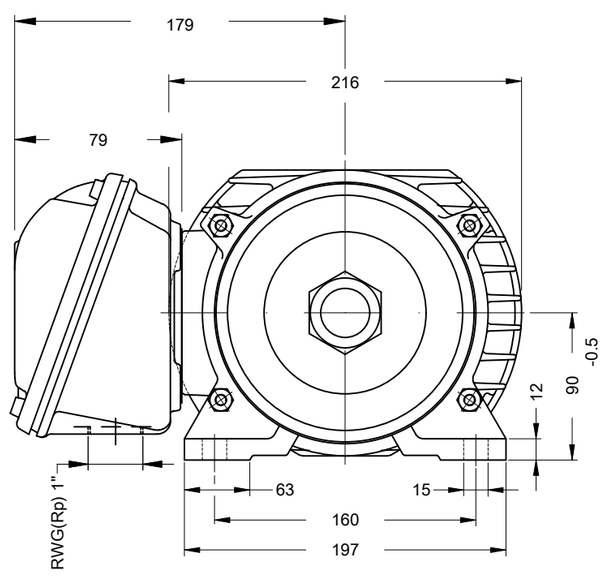


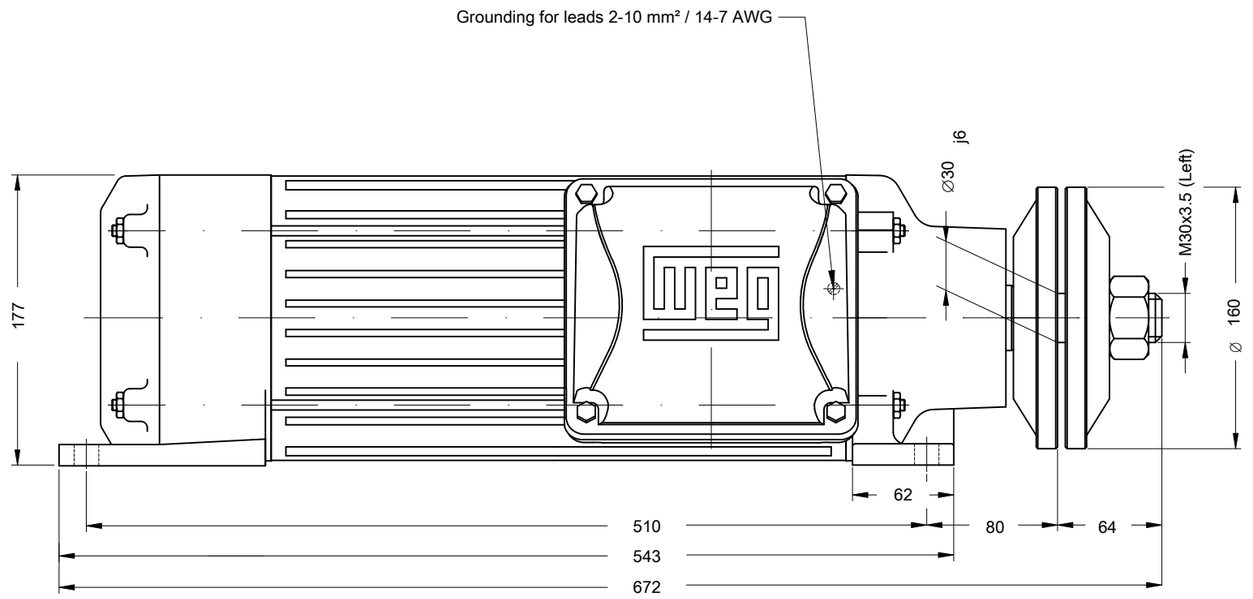

| | | | |
|---|---|---|---|
| Performance | : 575 V 60 Hz 4P | | |
| Rated current | : 11.7 A | Moment of inertia (J) | : 0.0168 kgm² |
| LRC | : 8.5 | Duty cycle | : S6 |
| Rated torque | : 4 kgfm | Insulation class | : F |
| Locked rotor torque | : 459 % | Service factor | : 1.00 |
| Breakdown torque | : 450 % | Temperature rise | : 80 K |
| Rated speed | : 1715 rpm | Design | : N |

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Color RAL 7022

Painting plan 207A

Mounting B3R(D)

10 HP 04 Poles 60 Hz

A

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

| | |
|---|---|
| EXECUTED | HYBRISUSER |
| CHECKED | |
| RELEASED | |
| REL. DATE | |

THREE PH. MOTOR SAW ARBOR MOTOR

FRAME 90L/MS IP54 TEFC

WMO Jaragua do Sul Product Engineering

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in mm

XME A3

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