# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase

Product code : 16240921

| | | | |
|---|---|---|---|
| Frame | : 324LP | Locked rotor time | : 54s (cold) 30s (hot) |
| Output | : 40 HP (30 kW) | Temperature rise | : 80 K |
| Poles | : 2 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 208-230/460 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 102-92.5/46.2 A | Protection degree | : IP55 |
| L. R. Amperes | : 673-611/305 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.6x(Code G) | Mounting | : W-6 |
| No load current | : 22.4-26.0/13.0 A | Rotation[1] | : Both (CW and CCW) |
| Rated speed | : 3560 rpm | Noise level[2] | : 81.0 dB(A) |
| Slip | : 1.11 % | Starting method | : VFD |
| Rated torque | : 8.15 kgfm | Approx. weight[3] | : 291 kg |
| Locked rotor torque | : 250 % | | |
| Breakdown torque | : 260 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.2063 kgm² | | |
| Design | : B | | |

| Output | 25% | 50% | 75% | 100% |
|---|---|---|---|---|
| Efficiency (%) | 0.000 | 92.4 | 93.6 | 93.6 |
| Power Factor | 0.00 | 0.79 | 0.85 | 0.87 |

Foundation loads

| | |
|---|---|
| Max. traction | : 0 kgf |
| Max. compression | : 0 kgf |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6212 C3 | 7310BECB |
| Sealing | : | Oil Seal | Lip Seal |
| Lubrication interval | : | 6072 h | 4017 h |
| Lubricant amount | : | 13 g | 15 g |
| Lubricant type | : | Mobil Polyrex EM | |

Notes
In Line Extra Thrust
NEMA Premium Efficiency

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 | 20/07/2026 | | 1 / 2 | |

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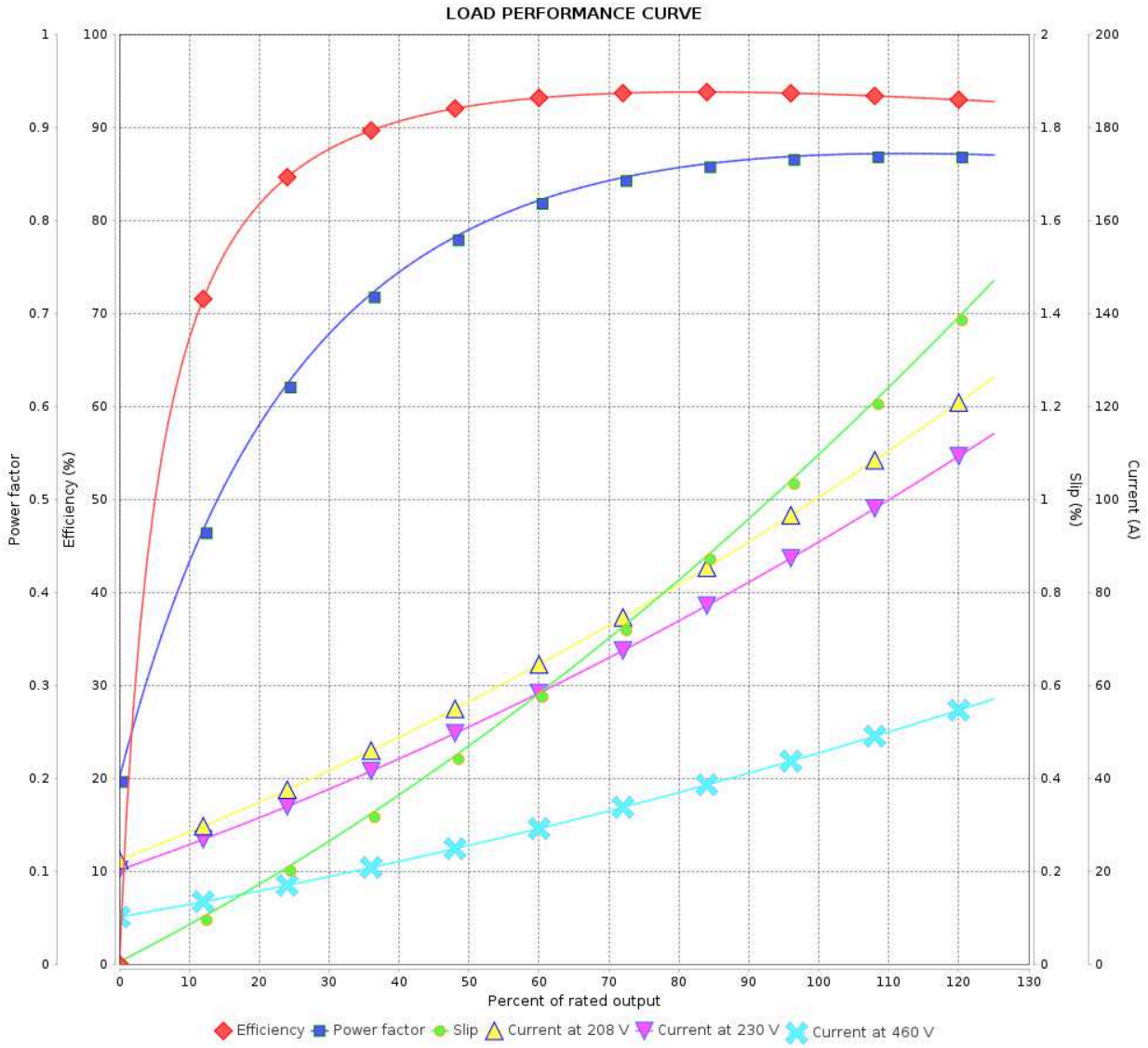
# LOAD PERFORMANCE CURVE

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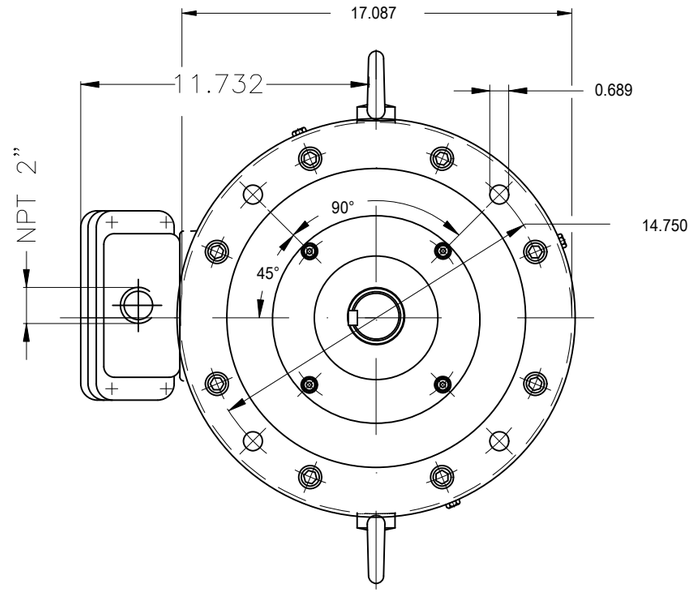

| Performance | : 208-230/460 V 60 Hz 2P | | |
|---|---|---|---|
| Rated current | : 102-92.5/46.2 A | Moment of inertia (J) | : 0.2063 kgm² |
| LRC | : 6.6 | Duty cycle | : Cont.(S1) |
| Rated torque | : 8.15 kgfm | Insulation class | : F |
| Locked rotor torque | : 250 % | Service factor | : 1.25 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 3560 rpm | Design | : B |

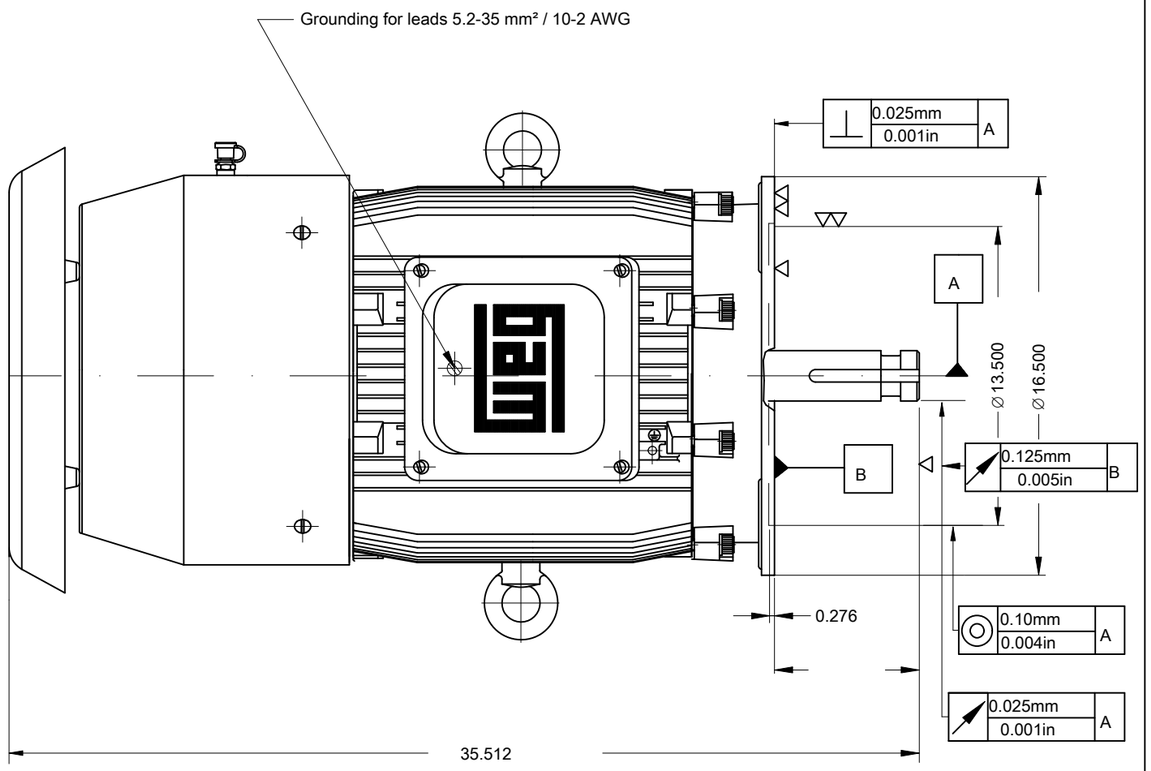
| Rev. | Changes Summary | Performed | Checked | Date |
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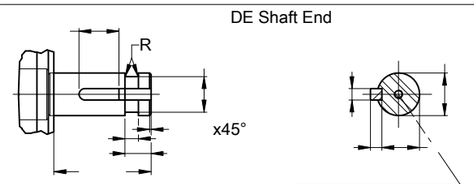
**ATENÇÃO/ATTENTION**
MOTOR DEVE SER LIGADO APENAS NA POSIÇÃO VERTICAL
MOTOR MUST BE ENERGIZED ONLY IN THE VERTICAL POSITION




| |
|---|
| Packing - crate |
| Plastic flat plug |
| Shaft material - SAE/ABNT 1040/45 |
| B key |
| With drip cover |
| Fan cover - steel plate |
| NDE sealing - lip seal |
| Sealing - oil seal ring |
| Without epoxi in the cables outlet |
| Grease - Mobil Polyrex EM |
| Bearing cap |
| C3 DE bearing |
| Without terminal block |
| Without overload protector at bearing |
| Without Space Heaters |
| Without thermal protection on bearings |
| Without alarm thermal protection |
| Without switch off thermal protection |
| Rubber drain plug |
| With grease fitting |
| Aluminum fan |
| Color RAL 5009 |
| Painting plan 203A |
| Mounting NEMA W-6 |
| Mounting V1 |

DE Shaft End




40 HP 02 Poles 60 Hz | A

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

| | | | |
|---|---|---|---|
| EXECUTED | HYBRISUSER | THREE PH. MOTOR IN LINE EXTRA THRUST NEMA PREM. EFF. | PREVIEW |
| CHECKED | | FRAME 324LP IP55 TEFC | WDD 00 |
| RELEASED | | | |
| REL. DATE | | WMO Jaragua do Sul Product Engineering | SHEET 1 / 1 |

Dimensions in inches
XME A3

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