# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 19092277

| | |
|---|---|
| Frame | : 215LP |
| Output | : 7.5 HP (5.5 kW) |
| Poles | : 2 |
| Frequency | : 60 Hz |
| Rated voltage | : 575 V |
| Rated current | : 6.86 A |
| L. R. Amperes | : 48.0 A |
| LRC | : 7.0x(Code H) |
| No load current | : 1.83 A |
| Rated speed | : 3535 rpm |
| Slip | : 1.81 % |
| Rated torque | : 1.54 kgfm |
| Locked rotor torque | : 220 % |
| Breakdown torque | : 300 % |
| Insulation class | : F |
| Service factor | : 1.25 |
| Moment of inertia (J) | : 0.0200 kgm² |
| Design | : B |

| | |
|---|---|
| Locked rotor time | : 41s (cold) 23s (hot) |
| Temperature rise | : 80 K |
| Duty cycle | : Cont.(S1) |
| Ambient temperature | : -20°C to +40°C |
| Altitude | : 1000 m.a.s.l. |
| Protection degree | : IP55 |
| Cooling method | : IC411 - TEFC |
| Mounting | : W-6 |
| Rotation[1] | : Both (CW and CCW) |
| Noise level[2] | : 72.0 dB(A) |
| Starting method | : Direct On Line |
| Approx. weight[3] | : 109 kg |

| Output | 25% | 50% | 75% | 100% |
|---|---|---|---|---|
| Efficiency (%) | 0.000 | 85.5 | 88.5 | 89.5 |
| Power Factor | 0.00 | 0.78 | 0.87 | 0.90 |

Foundation loads

Max. traction : 0 kgf

Max. compression : 0 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) |
|---|---|---|---|---|---|---|
| 11.0 | 8.2 | 7.4 | 5.8 | 3.2 | 2.1 | 1.2 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6309 | 7306BECB |
| Sealing | : | Oil Seal | Lip Seal |
| Lubrication interval | : | 7898 h | 8437 h |
| Lubricant amount | : | 13 g | 7 g |
| Lubricant type | : | Mobil Polyrex EM | |

Notes
In Line Extra Thrust Motor
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 |
|---|---|---|---|---|
| | | | | |

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|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 20/07/2026 | | 1 / 2 | |

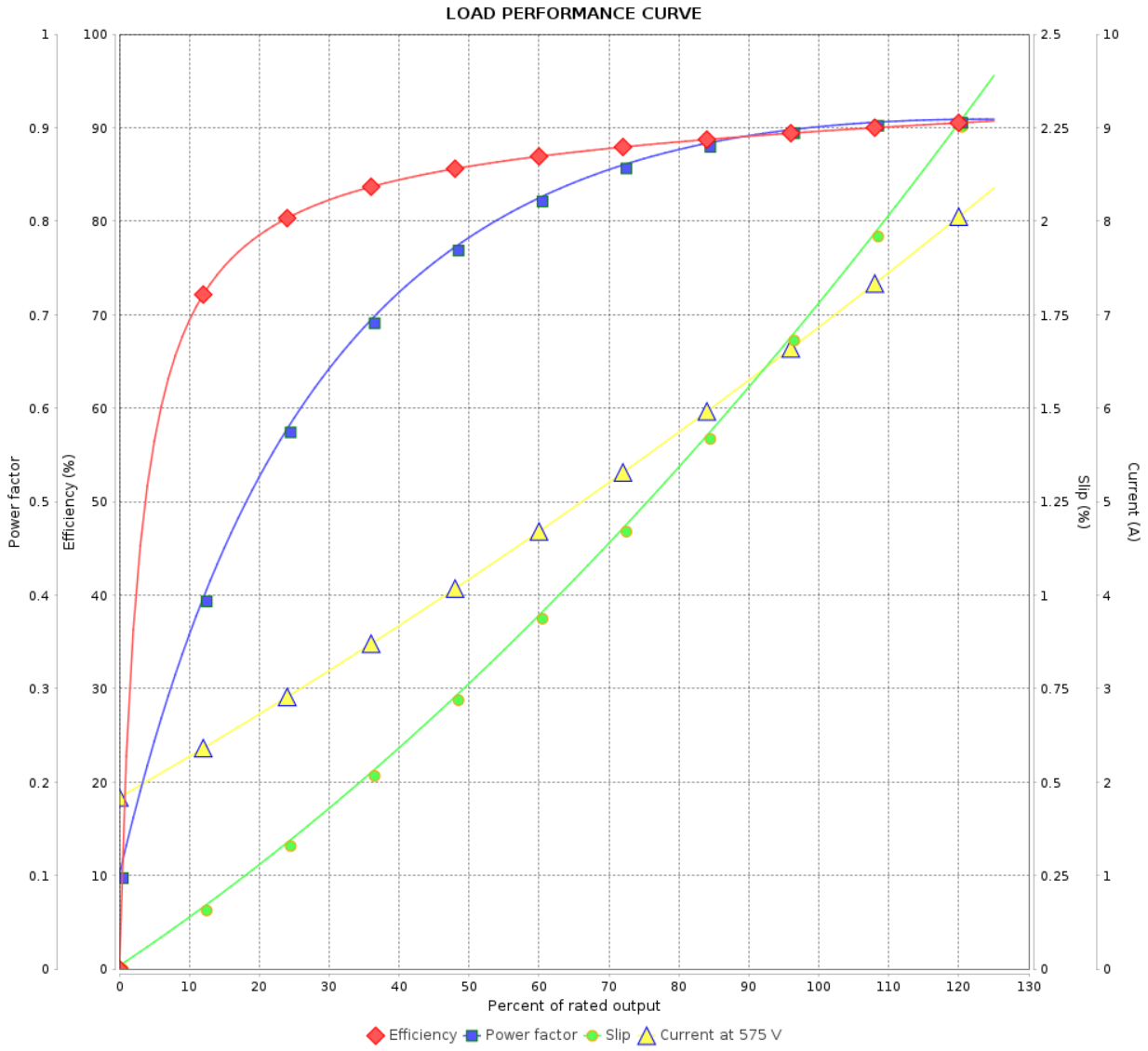
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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

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

| | | | |
|---|---|---|---|
| Product line | : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase | Product code : | 19092277 |




| | |
|---|---|
| Performance | : 575 V 60 Hz 2P |

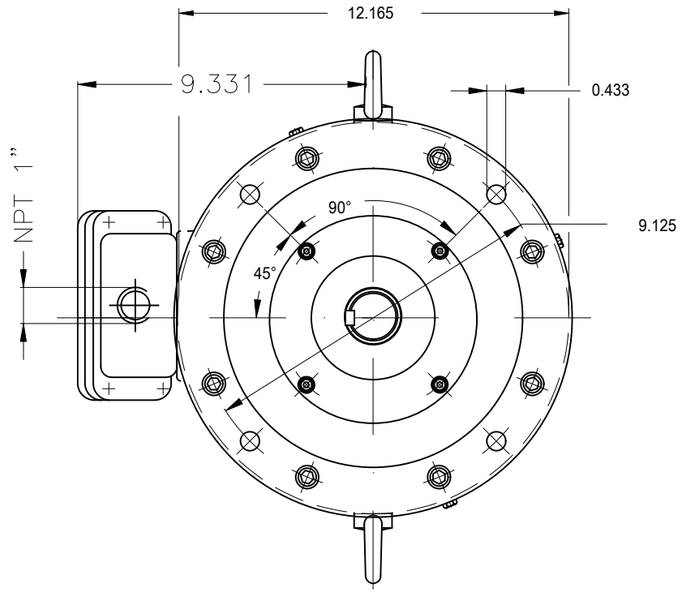
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|---|---|---|---|
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| LRC | : 7.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 1.54 kgfm | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : 1.25 |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 3535 rpm | Design | : B |

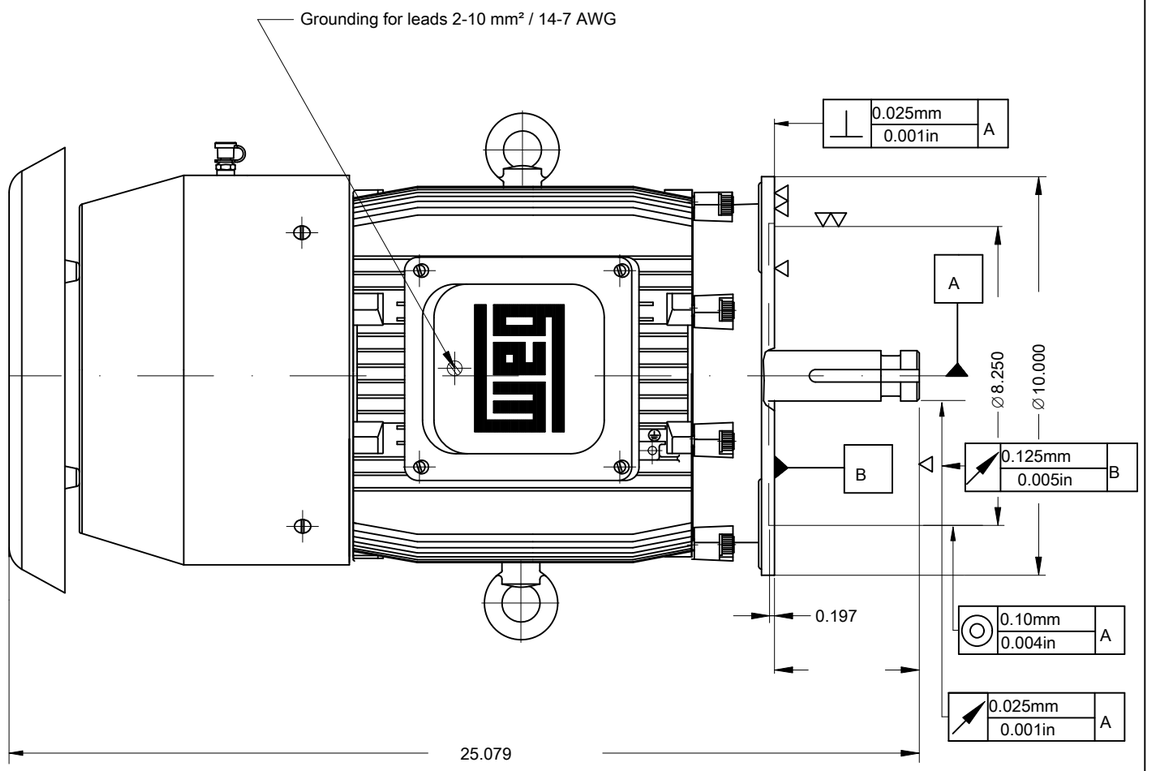
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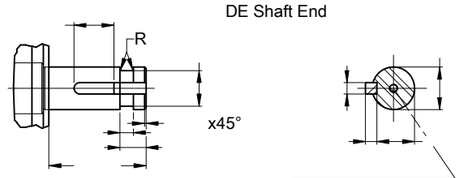
**ATENÇÃO/ATTENTION**
MOTOR DEVE SER LIGADO APENAS NA POSIÇÃO VERTICAL
MOTOR MUST BE ENERGIZED ONLY IN THE VERTICAL POSITION




| |
|---|
| Reduced balancing with half key |
| 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 |
| 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 207A |
| Mounting NEMA W-6 |
| Mounting V1 |

DE Shaft End




7.5 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 215LP 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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