# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

| | | | |
|---|---|---|---|
| Product line | : W22 P Base NEMA Premium Efficiency Three-Phase | Product code : | 15015298 |

| | | | |
|---|---|---|---|
| Frame | : 404/5HPH | Locked rotor time | : 23s (cold) 13s (hot) |
| Output | : 100 HP (75 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 575 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 90.4 A | Protection degree | : IP55 |
| L. R. Amperes | : 660 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.3x(Code H) | Mounting | : W-6 |
| No load current | : 30.4 A | Rotation[1] | : Both (CW and CCW) |
| Rated speed | : 1780 rpm | Noise level[2] | : 68.0 dB(A) |
| Slip | : 1.11 % | Starting method | : Direct On Line |
| Rated torque | : 40.8 kgfm | Approx. weight[3] | : 517 kg |
| Locked rotor torque | : 240 % | | |
| Breakdown torque | : 260 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 1.26 kgm² | | |
| Design | : B | | |

| Output | 25% | 50% | 75% | 100% |
|---|---|---|---|---|
| Efficiency (%) | 0.000 | 95.0 | 95.0 | 95.4 |
| Power Factor | 0.00 | 0.77 | 0.84 | 0.87 |

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) |
|---|---|---|---|---|---|---|
| 4.7 | 3.8 | 3.7 | 2.2 | 1.5 | 0.9 | 0.6 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6316 C3 | 6314 C3 |
| Sealing | : | Lip Seal | Lip Seal |
| Lubrication interval | : | 5000 h | 6000 h |
| Lubricant amount | : | 34 g | 27 g |
| 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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| Checked by | | | Page | Revision |
| Date | 10/07/2026 | | 1 / 2 | |

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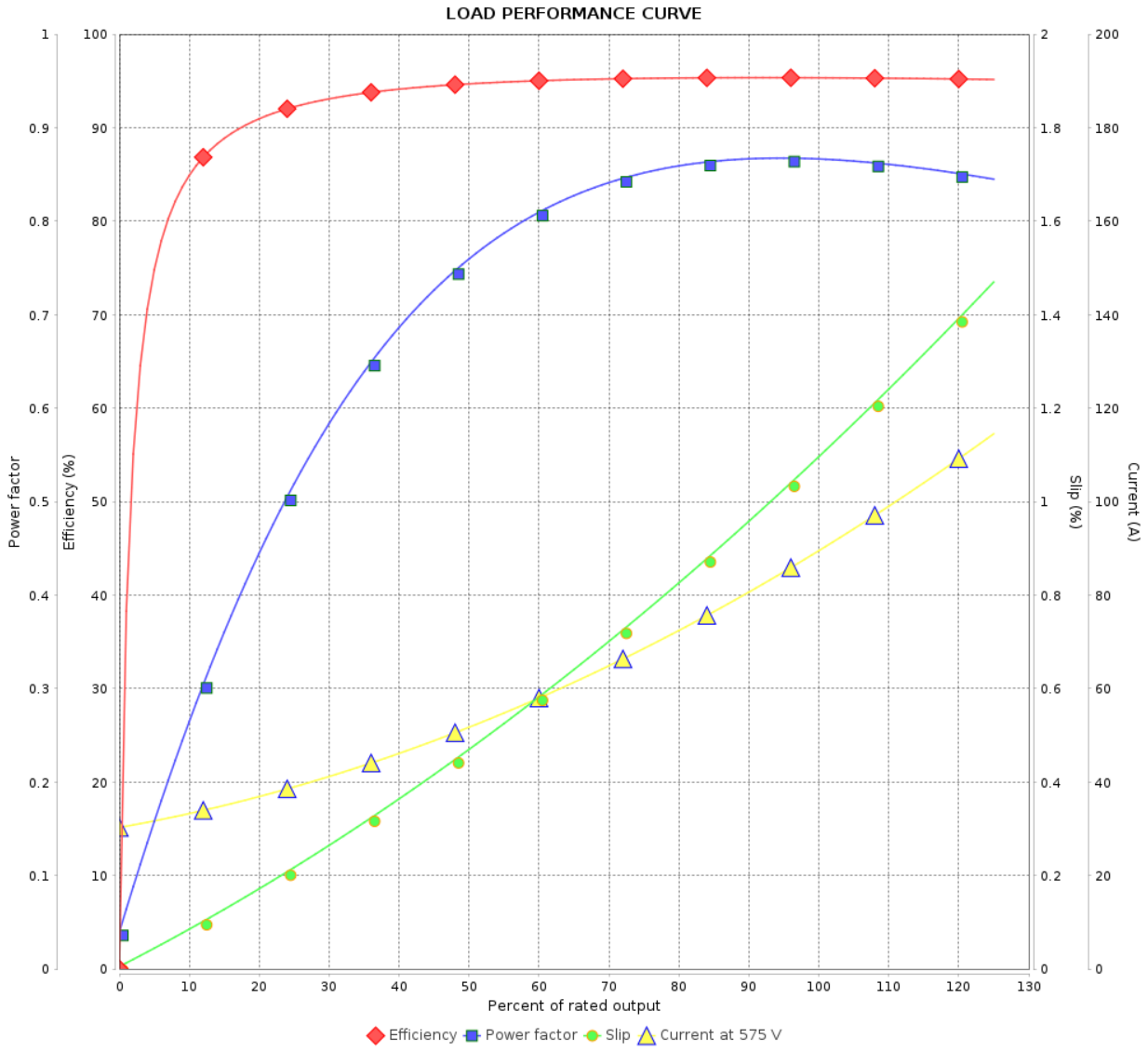
# LOAD PERFORMANCE CURVE

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Product code : 15015298



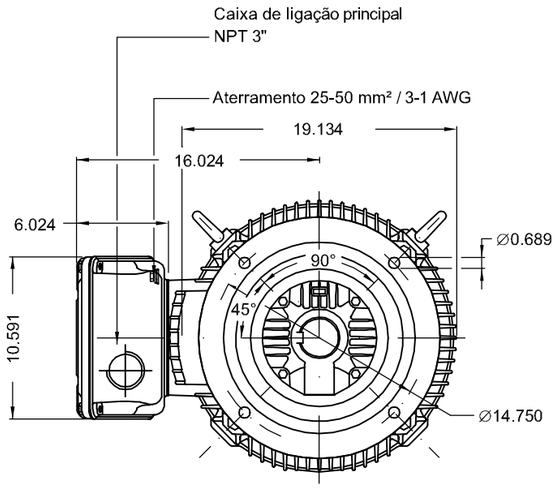

| | |
|---|---|
| Performance | : 575 V 60 Hz 4P |

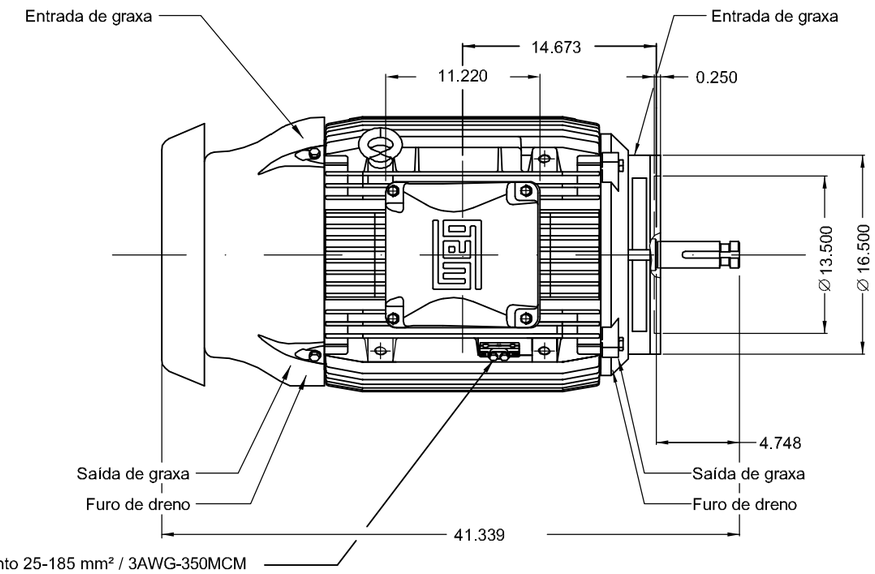
| | | | |
|---|---|---|---|
| Rated current | : 90.4 A | Moment of inertia (J) | : 1.26 kgm² |
| LRC | : 7.3 | Duty cycle | : Cont.(S1) |
| Rated torque | : 40.8 kgfm | Insulation class | : F |
| Locked rotor torque | : 240 % | Service factor | : 1.25 |
| Breakdown torque | : 260 % | Temperature rise | : 80 K |
| Rated speed | : 1780 rpm | Design | : B |

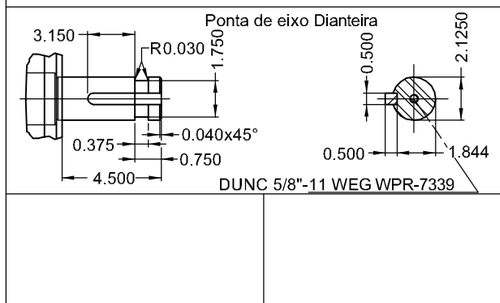
| Rev. | Changes Summary | Performed | Checked | Date |
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415551843

100 HP 04 Polos 60Hz | A

V.J. PAMENSKY CANADA INC.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | SANDRAR | PIRWBUSER | PIRWBUSER | | 04 |
| 500002112052 | | ALT CONFORME 418239887 | CLAUDEMIRR | JACKSONDC | JACKSONDC | 13.04.2022 | 03 |
| ECM | LOC | RESUMO MODIFICAÇÃO | EXECUTADO | VERIFICADO | LIBERADO | DATA | VER |

| | | | | |
|---|---|---|---|---|
| EXECUTOR | EDUARDORAMOS | MOTOR TRIFASICO W22 P-BASE PREMIUM EFF | 10006828121 | |
| VERIFICADOR | DANIELAW | CARCAÇA 404/5HPH IP55 TEFC | 000 | 04 |
| LIBERADOR | TBAZZANELLA | | | |
| DATA LB. | 31.07.2019 | WMO Jaragua do Sul Engenharia de Produto | FOLHA | 1 / 1 |

Plano de pintura 203A
Forma construtiva NEMA W-6
Forma construtiva V1

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Dimensões em polegada
A3
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