# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 14893765

| | | | |
|---|---|---|---|
| Frame | : 404/5LP | 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 | : 90.7 A | Protection degree | : IP55 |
| L. R. Amperes | : 653 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.2x(Code H) | Mounting | : W-6 |
| No load current | : 34.4 A | Rotation[1] | : Both (CW and CCW) |
| Rated speed | : 1780 rpm | Noise level[2] | : 75.0 dB(A) |
| Slip | : 1.11 % | Starting method | : VFD |
| Rated torque | : 40.8 kgfm | Approx. weight[3] | : 554 kg |
| Locked rotor torque | : 270 % | | |
| Breakdown torque | : 300 % | | |
| Insulation class | : F | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 1.11 kgm² | | |
| Design | : A | | |

| Output | 25% | 50% | 75% | 100% |
|---|---|---|---|---|
| Efficiency (%) | 0.000 | 94.5 | 95.0 | 95.4 |
| Power Factor | 0.00 | 0.72 | 0.82 | 0.87 |

Foundation loads

Max. traction

Max. compression

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6314 C3 | 7315BECB |
| Sealing | : | Oil Seal | Lip Seal |
| Lubrication interval | : | 4895 h | 3268 h |
| Lubricant amount | : | 27 g | 30 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 |
|---|---|---|---|---|
| | | | | |

| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 29/10/2024 | | 1 / 2 | |

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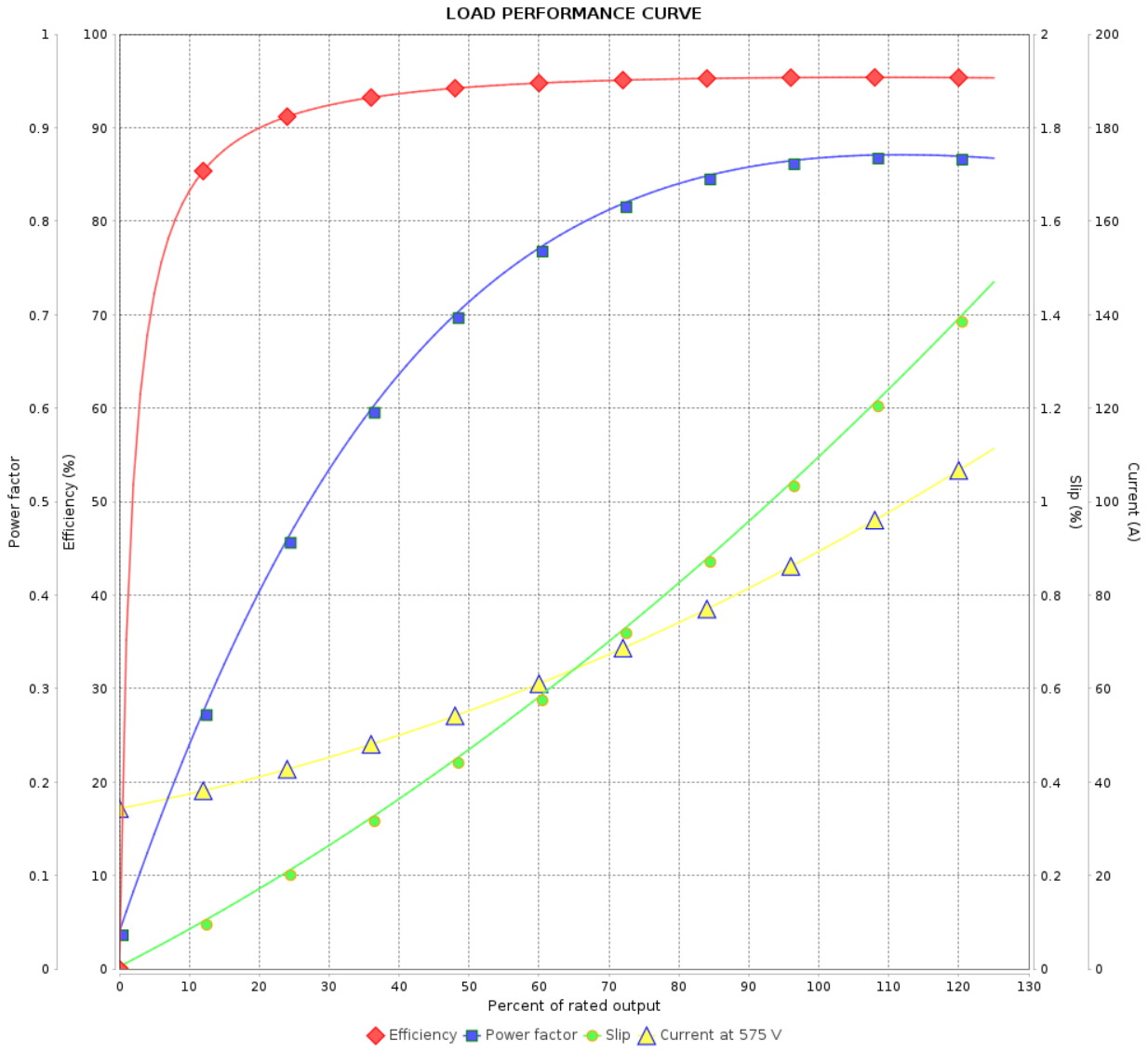
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 14893765




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

| | | | |
|---|---|---|---|
| Rated current | : 90.7 A | Moment of inertia (J) | : 1.11 kgm² |
| LRC | : 7.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 40.8 kgfm | Insulation class | : F |
| Locked rotor torque | : 270 % | Service factor | : 1.15 |
| Breakdown torque | : 300 % | Temperature rise | : 80 K |
| Rated speed | : 1780 rpm | Design | : A |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
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| EIXO/SHAFT | |
|---|---|
| PADRÃO/STANDARD | |
| OPCIONAL/OPTIONAL | |
| ESPECIAL/SPECIAL | X |

Dimensões em polegada
Dimensions in inches

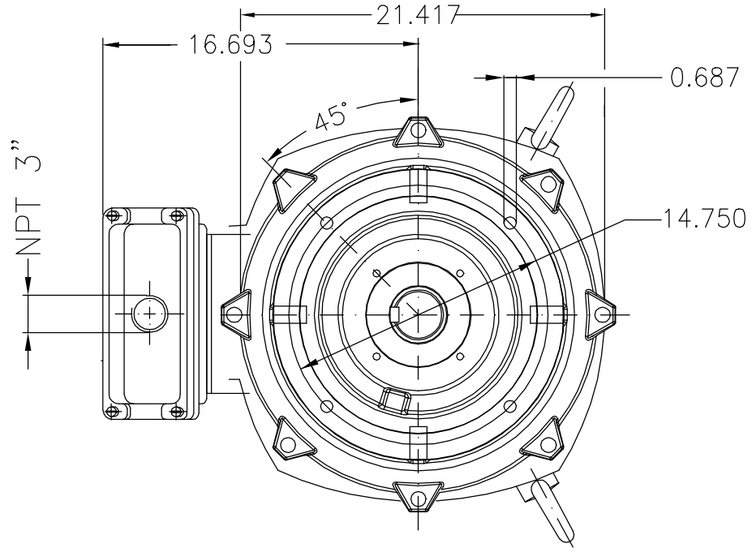
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WEG MOTORES
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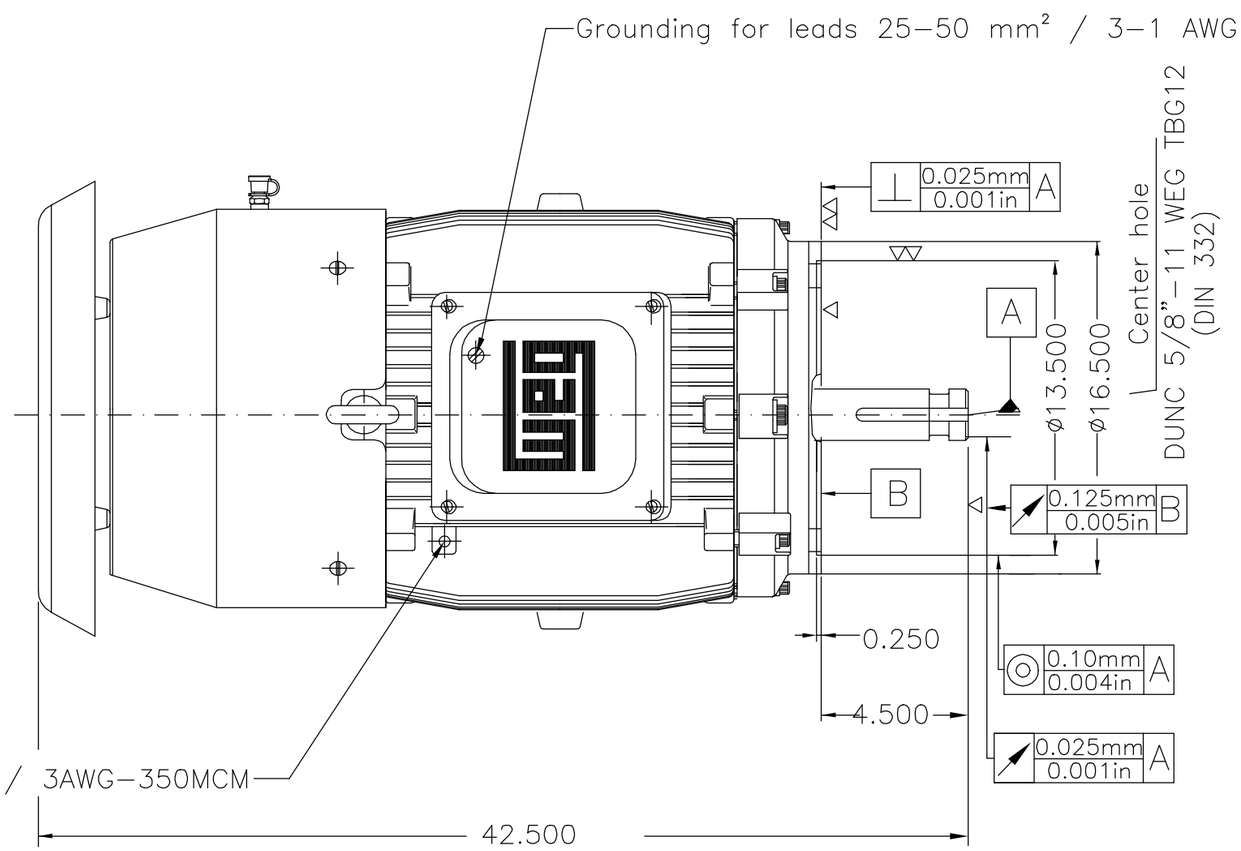
THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.

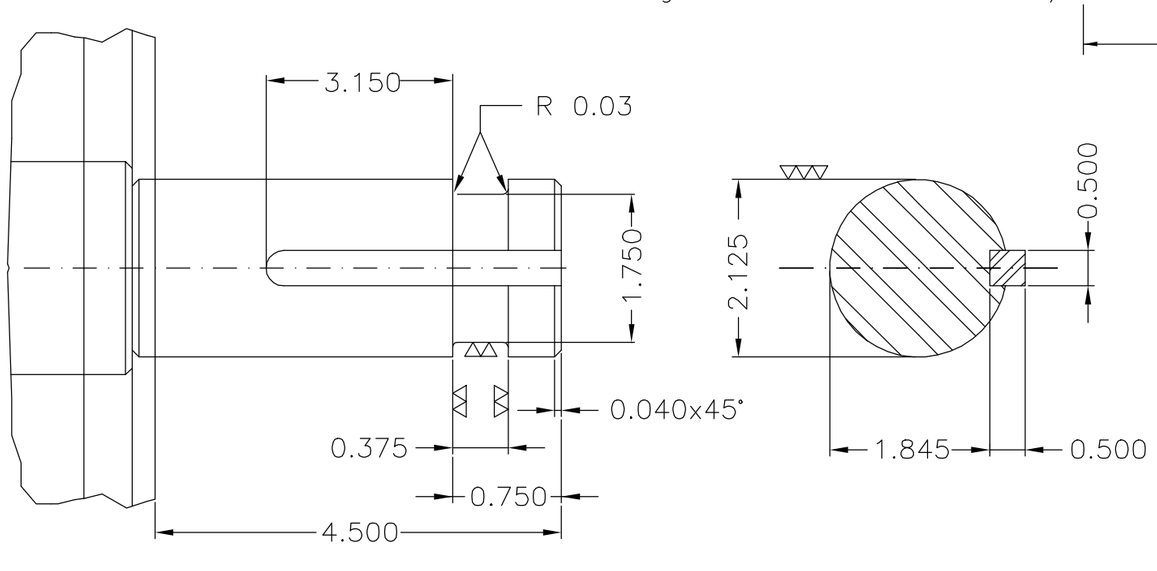
**ATENÇÃO/ATTENTION**

MOTOR DEVE SER LIGADO APENAS NA POSIÇÃO VERTICAL

MOTOR MUST BE ENERGIZED ONLY IN THE VERTICAL POSITION




| | |
|---|---|
| Categoria A / Design A | |
| Cor RAL 5009 / Color RAL 5009 | |
| Plano de pintura 203A / Painting plan 203A | |
| Fator de serviço 1.15 / Service factor 1.15 | |
| Forma construtiva NEMA W-6 / Mounting NEMA W-6 | |
| Forma construtiva V1 / Mounting V1 | |

V.J. PAMENSKY CANADA INC.

| ECM / ECM | LOC / LOC | RESUMO MODIFICAÇÃO / SUMMARY OF MODIFICATIONS | EXECUTADO / EXECUTED | VERIFICADO / CHECKED | LIBERADO / RELEASED | DATA / DATE | VER / VER |
|---|---|---|---|---|---|---|---|
| 500001594952 | | ALTERADO CONF. CLAIM 415204042 | RICLAV | DALTONR | DALTONR | 24.05.2019 | 01 |
| 500001592859 | | DOCUMENTO NOVO | CLEITONGS | FERNANDOLUIS | FERNANDOLUIS | 07.05.2019 | 00 |

| | | | |
|---|---|---|---|
| EXEC. / EXECUTED | CLEITONGS | THREE-PHASE IN LINE EXTRA THRUST MOTOR | 10006592388 |
| VERIF. / CHECKED | FERNANDOLUIS | FRAME 404/5LP IP55 TEFC | 000 01 |
| LIBER. / RELEASED | FERNANDOLUIS | | |
| DATA LB / REL DT | 07.05.2019 | WMO Jaragua do Sul Product Engineering | FOLHA / SHEET 1 / 1 |

100 HP 04 Poles 60Hz 415447013/1 ELE

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