

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust High Efficiency Three-Phase Product code : 12196036

|                       |                         |                             |                        |
|-----------------------|-------------------------|-----------------------------|------------------------|
| Frame                 | : 447LP                 | Locked rotor time           | : 32s (cold) 18s (hot) |
| Output                | : 250 HP (185 kW)       | Temperature rise            | : 80 K                 |
| Poles                 | : 2                     | 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         | : 215 A                 | Protection degree           | : IP55                 |
| L. R. Amperes         | : 1720 A                | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 8.0x(Code H)          | Mounting                    | : W-6                  |
| No load current       | : 48.7 A                | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 3570 rpm              | Noise level <sup>2</sup>    | : 87.0 dB(A)           |
| Slip                  | : 0.83 %                | Starting method             | : Direct On Line       |
| Rated torque          | : 50.8 kgfm             | Approx. weight <sup>3</sup> | : 1078 kg              |
| Locked rotor torque   | : 240 %                 |                             |                        |
| Breakdown torque      | : 280 %                 |                             |                        |
| Insulation class      | : F                     |                             |                        |
| Service factor        | : 1.15                  |                             |                        |
| Moment of inertia (J) | : 2.12 kgm <sup>2</sup> |                             |                        |
| Design                | : B                     |                             |                        |

|                |       |      |      |      |                  |
|----------------|-------|------|------|------|------------------|
| Output         | 25%   | 50%  | 75%  | 100% | Foundation loads |
| Efficiency (%) | 0.000 | 95.0 | 95.4 | 95.8 | Max. traction    |
| Power Factor   | 0.00  | 0.83 | 0.89 | 0.90 | Max. compression |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6314 C3          | 7311BECB             |
| Sealing              | : | Oil Seal         | Lip Seal             |
| Lubrication interval | : | 2860 h           | 2572 h               |
| Lubricant amount     | : | 27 g             | 36 g                 |
| Lubricant type       | : | Isoflex NBU-15   |                      |

### 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 |                 | Page<br>1 / 2<br>Revision |         |      |
| Checked by   |                 |                           |         |      |
| Date         | 24/10/2024      |                           |         |      |

# LOAD PERFORMANCE CURVE

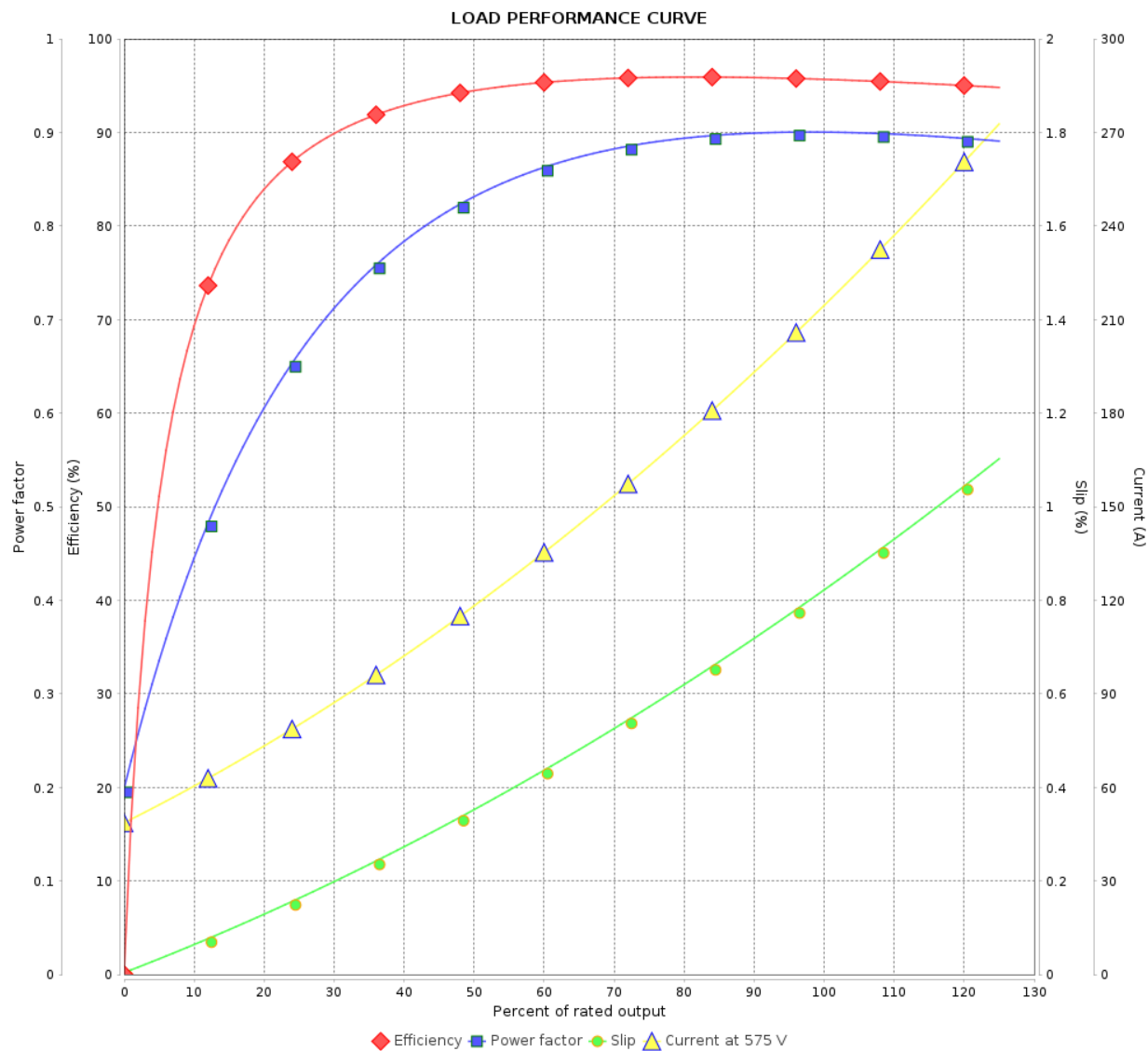
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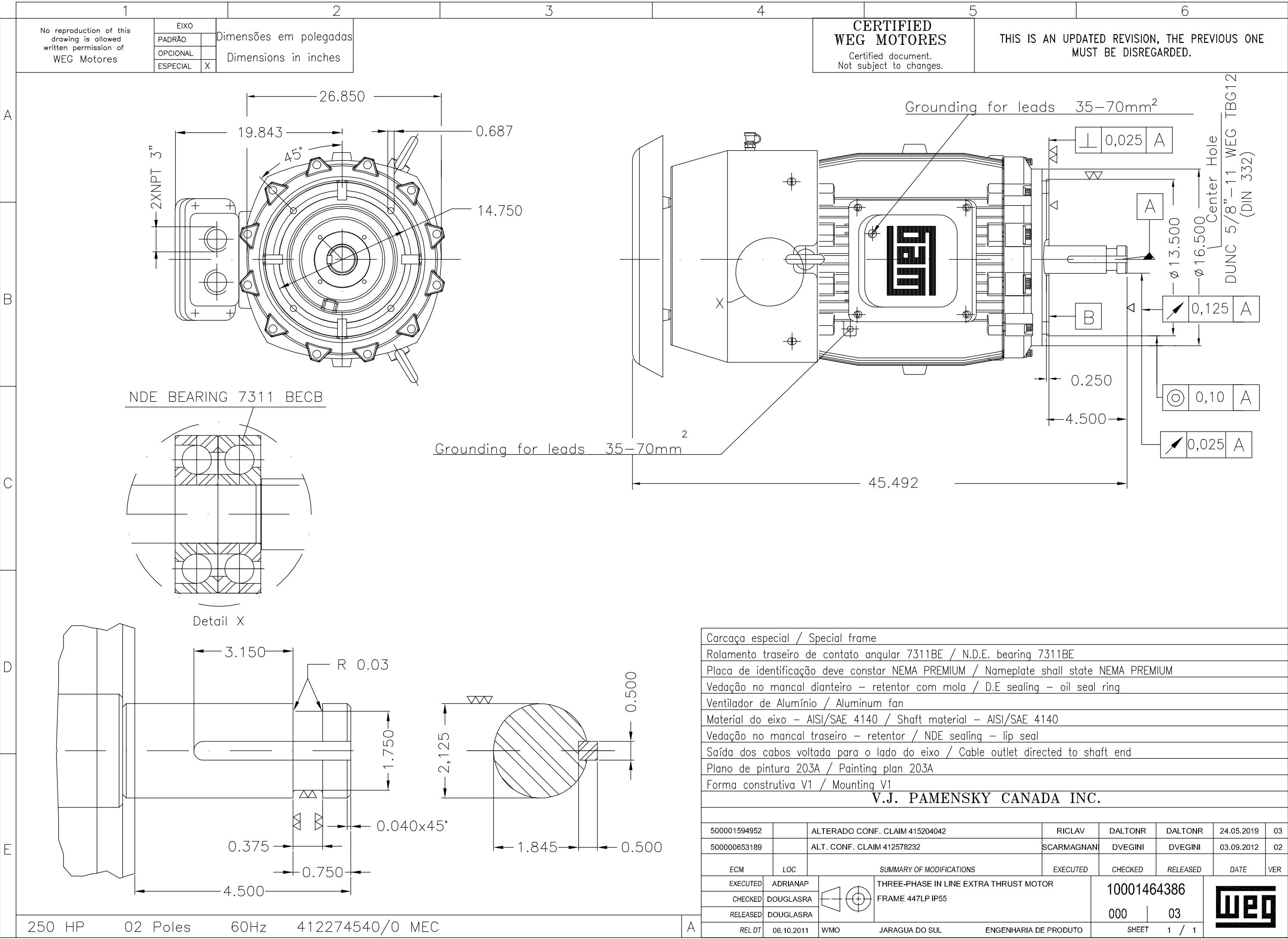


Performance : 575 V 60 Hz 2P

Rated current : 215 A  
LRC : 8.0  
Rated torque : 50.8 kgfm  
Locked rotor torque : 240 %  
Breakdown torque : 280 %  
Rated speed : 3570 rpm

Moment of inertia (J) : 2.12 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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