

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 18733373

|                       |                           |                             |                        |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame                 | : 254LP                   | Locked rotor time           | : 36s (cold) 20s (hot) |
| Output                | : 15 HP (11 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         | : 14.0 A                  | Protection degree           | : IP55                 |
| L. R. Amperes         | : 93.8 A                  | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 6.7x(Code G)            | Mounting                    | : W-6                  |
| No load current       | : 4.42 A                  | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 3540 rpm                | Starting method             | : Direct On Line       |
| Slip                  | : 1.67 %                  | Approx. weight <sup>3</sup> | : 169 kg               |
| Rated torque          | : 3.08 kgfm               |                             |                        |
| Locked rotor torque   | : 180 %                   |                             |                        |
| Breakdown torque      | : 290 %                   |                             |                        |
| Insulation class      | : F                       |                             |                        |
| Service factor        | : 1.15                    |                             |                        |
| Moment of inertia (J) | : 0.0425 kgm <sup>2</sup> |                             |                        |
| Design                | : B                       |                             |                        |

|                |       |      |      |      |                          |
|----------------|-------|------|------|------|--------------------------|
| Output         | 25%   | 50%  | 75%  | 100% | Foundation loads         |
| Efficiency (%) | 0.000 | 87.4 | 89.4 | 91.0 | Max. traction : 0 kgf    |
| Power Factor   | 0.00  | 0.76 | 0.84 | 0.87 | 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 9.3          | 7.0          | 6.6           | 5.1          | 2.9          | 1.9           | 1.1            |

|                      | Drive end          | Non drive end    |
|----------------------|--------------------|------------------|
| Bearing type         | : 6309             | : 7309BECB       |
| Sealing              | : Oil Seal         | : Not Applicable |
| Lubrication interval | : 7898 h           | : 4933 h         |
| Lubricant amount     | : 13 g             | : 13 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   |                 |           |               |          |
| Date         | 20/07/2026      |           | Page<br>1 / 2 | Revision |

# LOAD PERFORMANCE CURVE

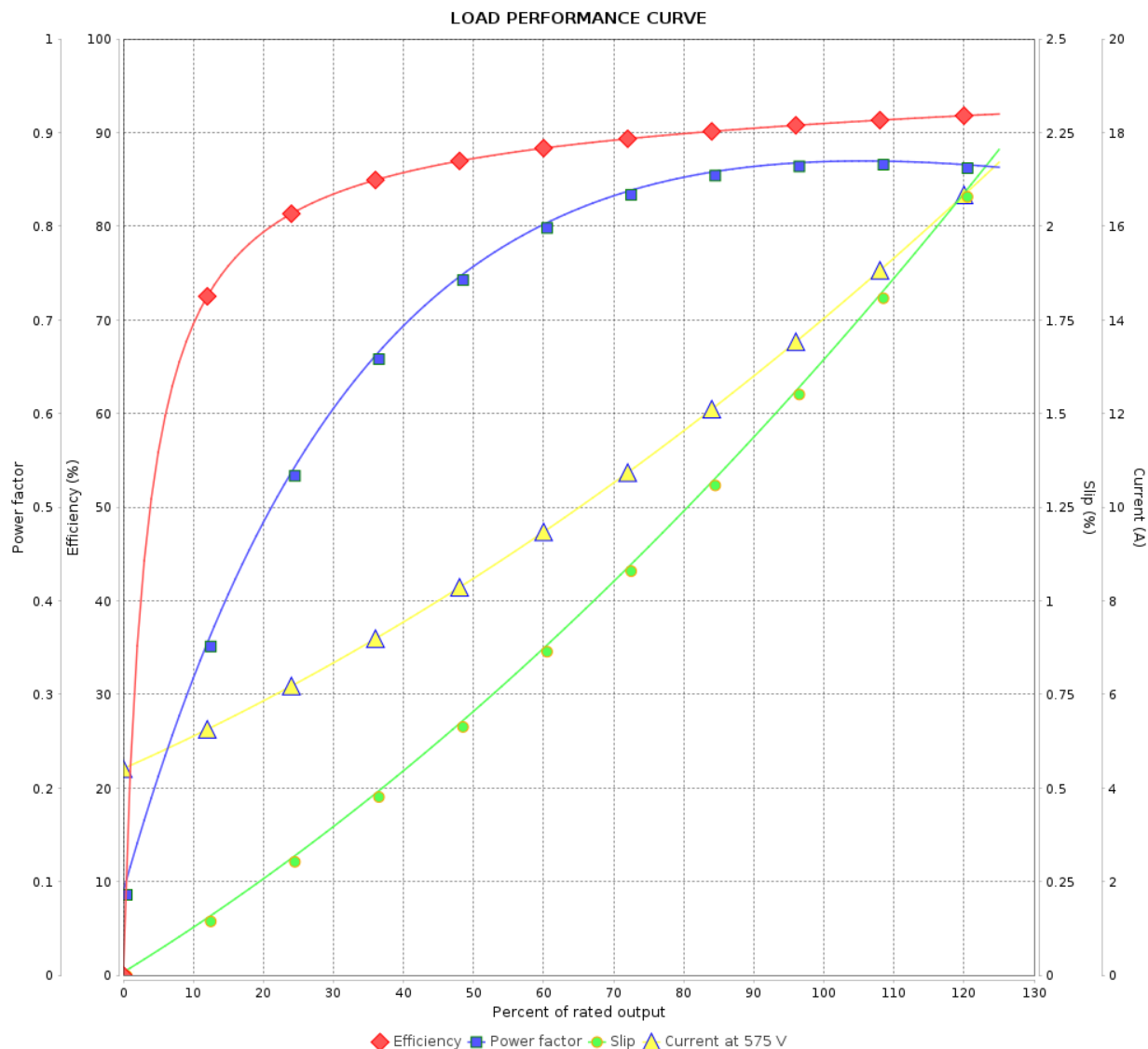
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Premium Efficiency Three-Phase

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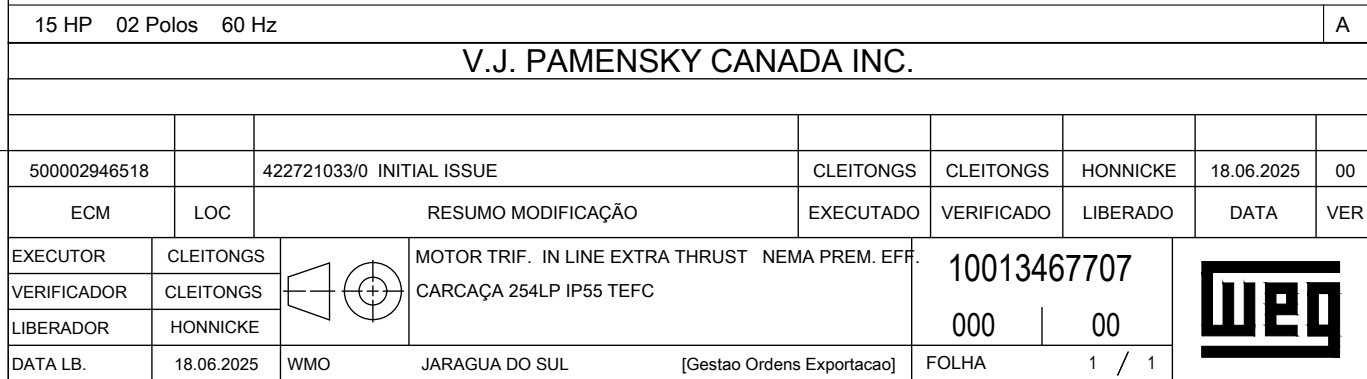
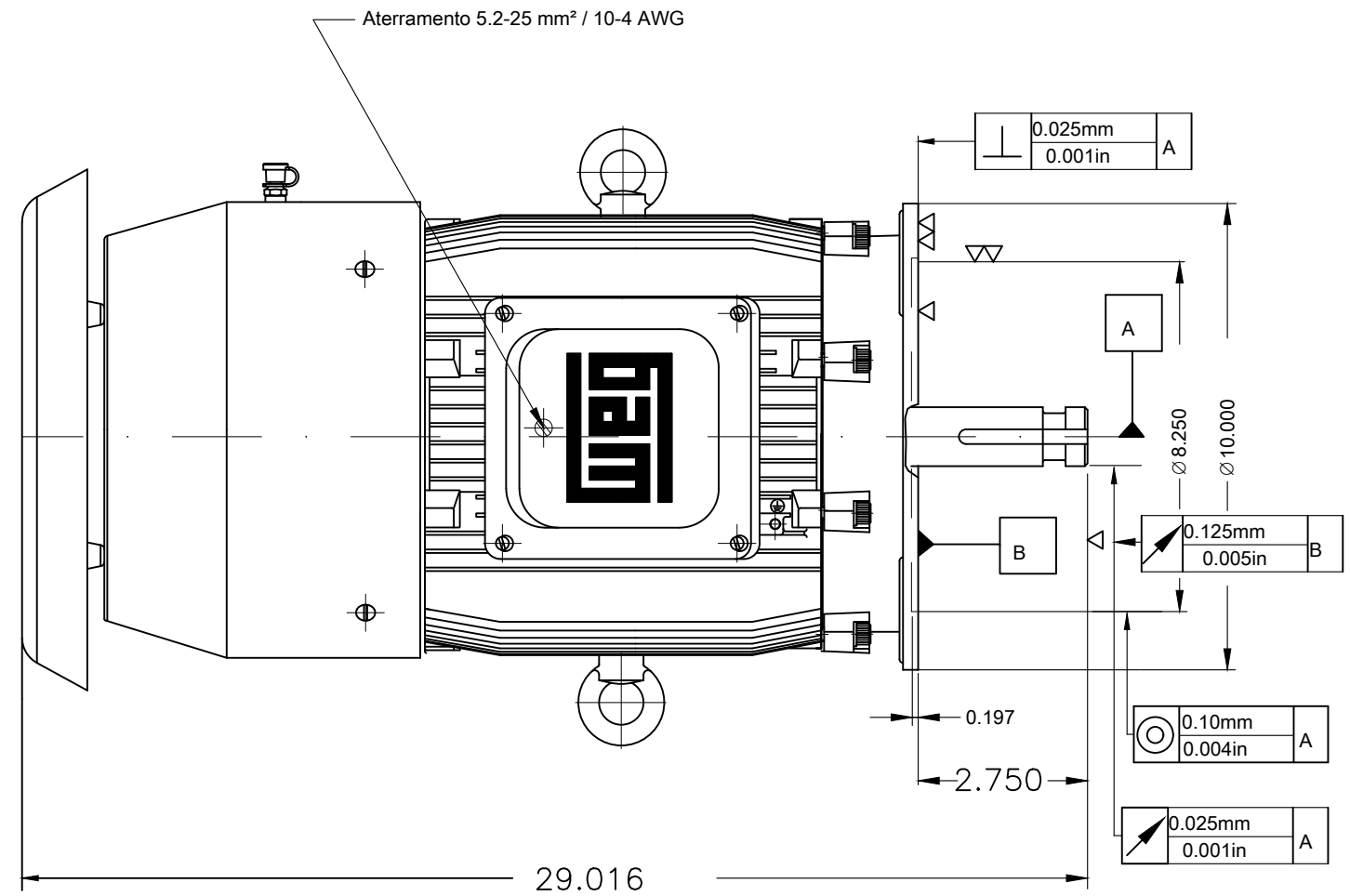
Performance : 575 V 60 Hz 2P

Rated current : 14.0 A  
LRC : 6.7  
Rated torque : 3.08 kgfm  
Locked rotor torque : 180 %  
Breakdown torque : 290 %  
Rated speed : 3540 rpm

Moment of inertia (J) : 0.0425 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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|              |                 |                     |         |      |
| Performed by |                 | Page 2 / 2 Revision |         |      |
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| Date         | 20/07/2026      |                     |         |      |

MOTOR DEVE SER LIGADO APENAS NA POSIÇÃO VERTICAL  
MOTOR MUST BE ENERGIZED ONLY IN THE VERTICAL POSITION



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CÓPIA SEM CONTROLE

LIBERADO SISTEMA Dimensões em polegada

XME A3