

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 17114236

|                       |                           |                             |                        |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame                 | : 213LP                   | Locked rotor time           | : 64s (cold) 36s (hot) |
| Output                | : 5 HP (3.7 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         | : 5.19 A                  | Protection degree           | : IP55                 |
| L. R. Amperes         | : 34.3 A                  | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 6.6x(Code H)            | Mounting                    | : W-6                  |
| No load current       | : 2.31 A                  | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1765 rpm                | Noise level <sup>2</sup>    | : 58.0 dB(A)           |
| Slip                  | : 1.94 %                  | Starting method             | : Direct On Line       |
| Rated torque          | : 2.06 kgfm               | Approx. weight <sup>3</sup> | : 93.0 kg              |
| Locked rotor torque   | : 210 %                   |                             |                        |
| Breakdown torque      | : 280 %                   |                             |                        |
| Insulation class      | : F                       |                             |                        |
| Service factor        | : 1.25                    |                             |                        |
| Moment of inertia (J) | : 0.0413 kgm <sup>2</sup> |                             |                        |
| Design                | : B                       |                             |                        |

|                |       |      |      |      |                          |
|----------------|-------|------|------|------|--------------------------|
| Output         | 25%   | 50%  | 75%  | 100% | Foundation loads         |
| Efficiency (%) | 0.000 | 89.5 | 89.5 | 89.5 | Max. traction : 0 kgf    |
| Power Factor   | 0.00  | 0.63 | 0.75 | 0.80 | 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 11.4         | 9.3          | 8.4           | 6.2          | 4.2          | 3.0           | 2.1            |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6309 C3          | 7306BECB             |
| Sealing              | : | Oil Seal         | Lip Seal             |
| Lubrication interval | : | 14395 h          | 16157 h              |
| Lubricant amount     | : | 13 g             | 7 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 |                 | Page<br>1 / 2<br>Revision |         |      |
| Checked by   |                 |                           |         |      |
| Date         | 20/07/2026      |                           |         |      |

# LOAD PERFORMANCE CURVE

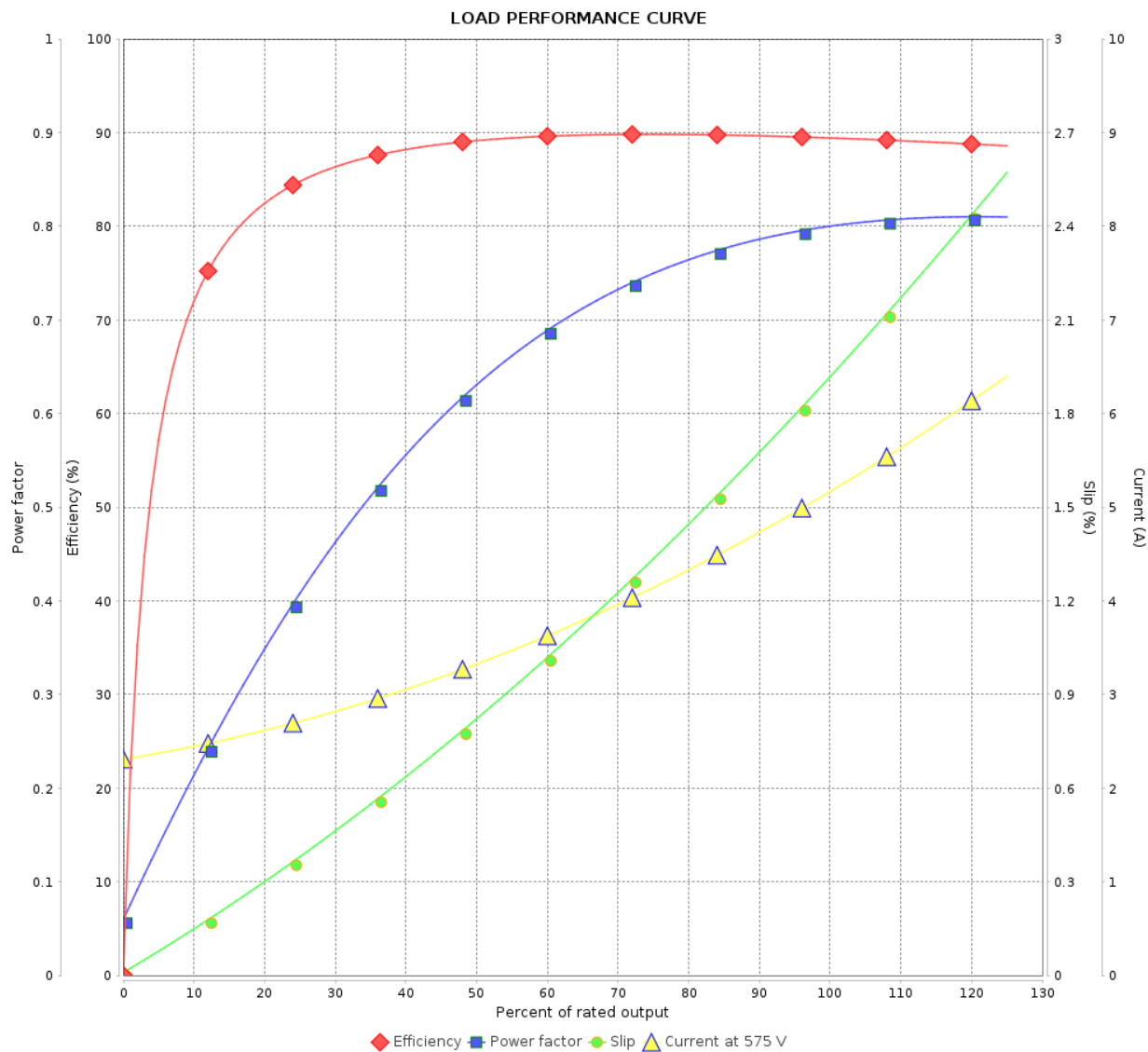
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Premium Efficiency Three-Phase

Product code : 17114236



Performance : 575 V 60 Hz 4P

Rated current : 5.19 A  
LRC : 6.6  
Rated torque : 2.06 kgfm  
Locked rotor torque : 210 %  
Breakdown torque : 280 %  
Rated speed : 1765 rpm

Moment of inertia (J) : 0.0413 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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