

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase

Product code : 14787356

|                       |                           |                             |                         |
|-----------------------|---------------------------|-----------------------------|-------------------------|
| Frame                 | : L132M/L                 | Locked rotor time           | : 16s (cold) 9s (hot)   |
| Output                | : 11 kW (15 HP)           | Temperature rise            | : 80 K                  |
| Poles                 | : 4                       | Duty cycle                  | : S1                    |
| Frequency             | : 60 Hz                   | Ambient temperature         | : -20°C to +40°C        |
| Rated voltage         | : 575 V                   | Altitude                    | : 1000 m.a.s.l.         |
| Rated current         | : 14.9 A                  | Protection degree           | : IP55                  |
| L. R. Amperes         | : 140 A                   | Cooling method              | : IC411 - TEFC          |
| LRC                   | : 9.4                     | Mounting                    | : B35R(E)               |
| No load current       | : 7.65 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 %                  | Vibration                   | : A                     |
| Rated torque          | : 6 kgfm                  | Starting method             | : Direct On Line        |
| Locked rotor torque   | : 260 %                   | Approx. weight <sup>3</sup> | : 99.0 kg               |
| Breakdown torque      | : 350 %                   | Painting plan               | : 207A (ISO 12944 - C3) |
| Insulation class      | : F                       | Color                       | : RAL 5009              |
| Service factor        | : 1.15                    | Design                      | : N                     |
| Moment of inertia (J) | : 0.0777 kgm <sup>2</sup> |                             |                         |

|                |       |      |      |      |
|----------------|-------|------|------|------|
| Output         | 25%   | 50%  | 75%  | 100% |
| Efficiency (%) | 0.000 | 91.0 | 91.8 | 92.6 |
| Power Factor   | 0.00  | 0.62 | 0.74 | 0.80 |

|                  |           |
|------------------|-----------|
| Foundation loads |           |
| Max. traction    | : 343 kgf |
| Max. compression | : 442 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 7.8          | 6.4          | 6.0           | 4.4          | 3.0          | 2.2           | 1.5            |

|                      | Drive end | Non drive end |
|----------------------|-----------|---------------|
| Bearing type         | : 6308 ZZ | : 6207 ZZ     |
| Sealing              | : V'Ring  | : V'Ring      |
| Lubrication interval | : 0 h     | : 0 h         |
| Lubricant amount     | : 0 g     | : 0 g         |
| Lubricant type       |           | 00088         |

### Notes

W22 IE3 as per IEC 60034-30

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 IEC 60034-1.

| Rev.         | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------|------|
|              |                 |           |         |      |
| Performed by |                 |           |         |      |
| Checked by   |                 |           |         |      |
| Date         | 29/09/2026      |           |         |      |

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Revision

# LOAD PERFORMANCE CURVE

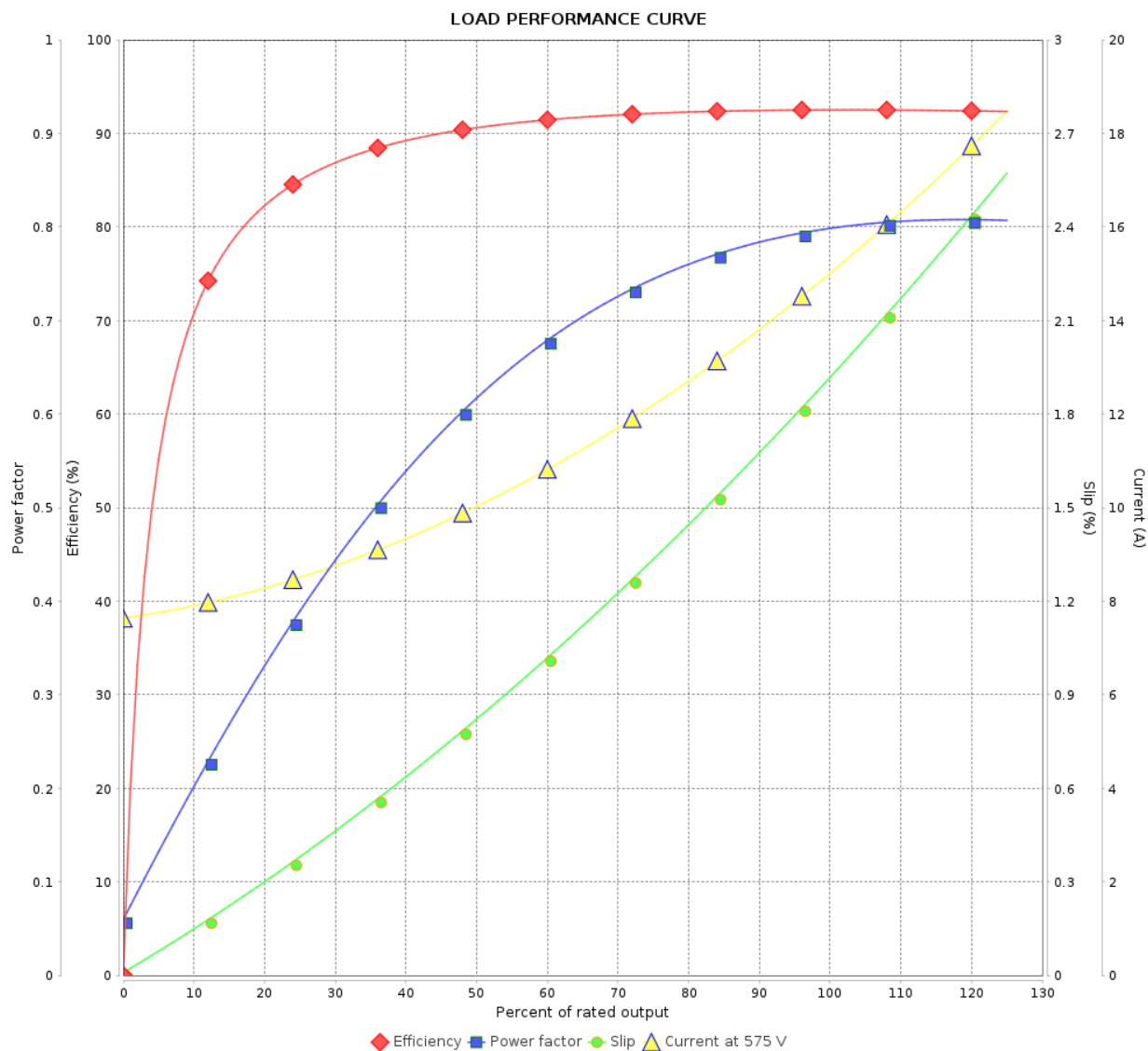
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Performance : 575 V 60 Hz 4P

Rated current : 14.9 A  
LRC : 9.4  
Rated torque : 6 kgfm  
Locked rotor torque : 260 %  
Breakdown torque : 350 %  
Rated speed : 1765 rpm

Moment of inertia (J) : 0.0777 kgm<sup>2</sup>  
Duty cycle : S1  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : N

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