

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11535562

|                       |                           |                             |                         |
|-----------------------|---------------------------|-----------------------------|-------------------------|
| Frame                 | : 284/6TC                 | Locked rotor time           | : 36s (cold) 20s (hot)  |
| Output                | : 30 HP (22 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         | : 28.1 A                  | Protection degree           | : IP55                  |
| L. R. Amperes         | : 171 A                   | Cooling method              | : IC411 - TEFC          |
| LRC                   | : 6.1x(Code G)            | Mounting                    | : F-1                   |
| No load current       | : 9.84 A                  | Rotation <sup>1</sup>       | : Both (CW and CCW)     |
| Rated speed           | : 1770 rpm                | Noise level <sup>2</sup>    | : 63.0 dB(A)            |
| Slip                  | : 1.67 %                  | Vibration                   | : A                     |
| Rated torque          | : 12 kgfm                 | Starting method             | : Direct On Line        |
| Locked rotor torque   | : 240 %                   | Approx. weight <sup>3</sup> | : 198 kg                |
| Breakdown torque      | : 240 %                   |                             | : 203A (ISO 12944 - C3) |
| Insulation class      | : F                       |                             | : RAL 5009              |
| Service factor        | : 1.25                    | Design                      | : B                     |
| Moment of inertia (J) | : 0.2467 kgm <sup>2</sup> |                             |                         |

|                |       |      |      |      |                  |           |
|----------------|-------|------|------|------|------------------|-----------|
| Output         | 25%   | 50%  | 75%  | 100% | Foundation loads |           |
| Efficiency (%) | 0.000 | 93.0 | 93.0 | 93.6 | Max. traction    | : 322 kgf |
| Power Factor   | 0.00  | 0.70 | 0.80 | 0.84 | Max. compression | : 523 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 6.8          | 5.8          | 5.2           | 3.1          | 2.2          | 1.4           | 0.9            |

|                      | Drive end        | Non drive end |
|----------------------|------------------|---------------|
| Bearing type         | : 6311 C3        | 6211 C3       |
| Sealing              | : V'Ring         | V'Ring        |
| Lubrication interval | : 20000 h        | 20000 h       |
| Lubricant amount     | : 18 g           | 11 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   |                 |           |               |          |
| Date         | 23/09/2026      |           | Page<br>1 / 2 | Revision |

# LOAD PERFORMANCE CURVE

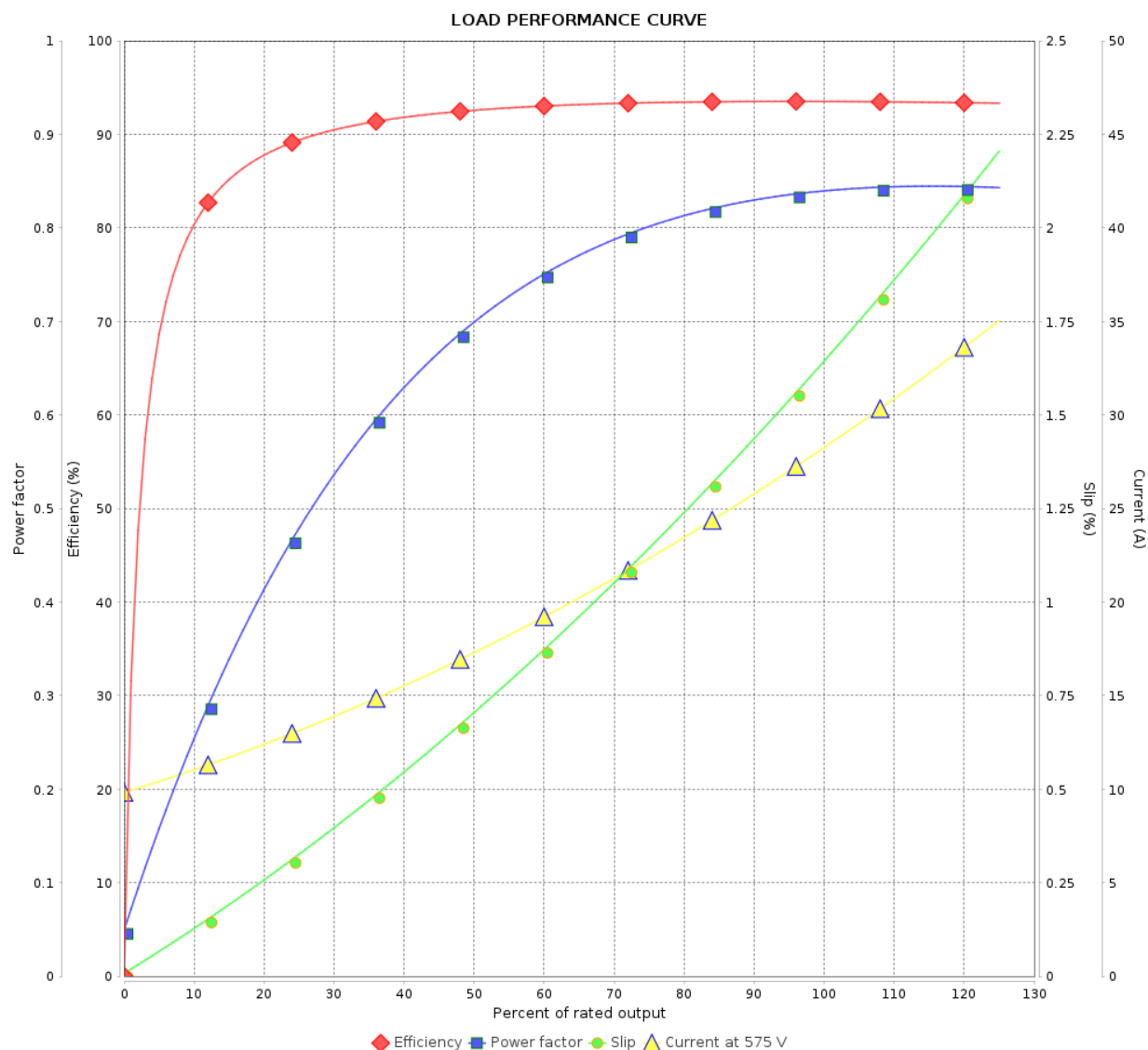
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Three-Phase

Product code : 11535562



Performance : 575 V 60 Hz 4P

Rated current : 28.1 A  
LRC : 6.1  
Rated torque : 12 kgfm  
Locked rotor torque : 240 %  
Breakdown torque : 240 %  
Rated speed : 1770 rpm

Moment of inertia (J) : 0.2467 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

| Rev.         | Changes Summary |  | Performed | Checked               | Date |
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|              |                 |  |           |                       |      |
| Performed by |                 |  |           | Page<br>2 / 2Revision |      |
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