

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 14679747

|                       |                           |                             |                        |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame                 | : 324/6TC                 | Locked rotor time           | : 36s (cold) 20s (hot) |
| Output                | : 40 HP (30 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         | : 37.7 A                  | Protection degree           | : IP55                 |
| L. R. Amperes         | : 230 A                   | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 6.1x(Code G)            | Mounting                    | : F-1                  |
| No load current       | : 13.8 A                  | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1775 rpm                | Noise level <sup>2</sup>    | : 66.0 dB(A)           |
| Slip                  | : 1.39 %                  | Starting method             | : Direct On Line       |
| Rated torque          | : 16.4 kgfm               | Approx. weight <sup>3</sup> | : 308 kg               |
| Locked rotor torque   | : 229 %                   |                             |                        |
| Breakdown torque      | : 240 %                   |                             |                        |
| Insulation class      | : F                       |                             |                        |
| Service factor        | : 1.25                    |                             |                        |
| Moment of inertia (J) | : 0.3861 kgm <sup>2</sup> |                             |                        |
| Design                | : B                       |                             |                        |

|                |       |      |      |      |                  |           |
|----------------|-------|------|------|------|------------------|-----------|
| Output         | 25%   | 50%  | 75%  | 100% | Foundation loads |           |
| Efficiency (%) | 0.000 | 93.6 | 94.1 | 94.1 | Max. traction    | : 340 kgf |
| Power Factor   | 0.00  | 0.72 | 0.80 | 0.85 | Max. compression | : 648 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 6.2          | 5.4          | 4.9           | 2.8          | 2.0          | 1.3           | 0.9            |

|                      | Drive end        | Non drive end |
|----------------------|------------------|---------------|
| Bearing type         | : 6312 C3        | 6212 C3       |
| Sealing              | : V'Ring         | Lip Seal      |
| Lubrication interval | : 20000 h        | 20000 h       |
| Lubricant amount     | : 21 g           | 13 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 |                 | Page<br>1 / 3<br>Revision |         |      |
| Checked by   |                 |                           |         |      |
| Date         | 14/11/2025      |                           |         |      |

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## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

### Brake information

Voltage: 525-575 V

Brake Torque: 40.8 kgfm

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|--------------|-----------------|--|---------------|---------|----------|
|              |                 |  |               |         |          |
| Performed by |                 |  | Page<br>2 / 3 |         | Revision |
| Checked by   |                 |  |               |         |          |
| Date         | 14/11/2025      |  |               |         |          |

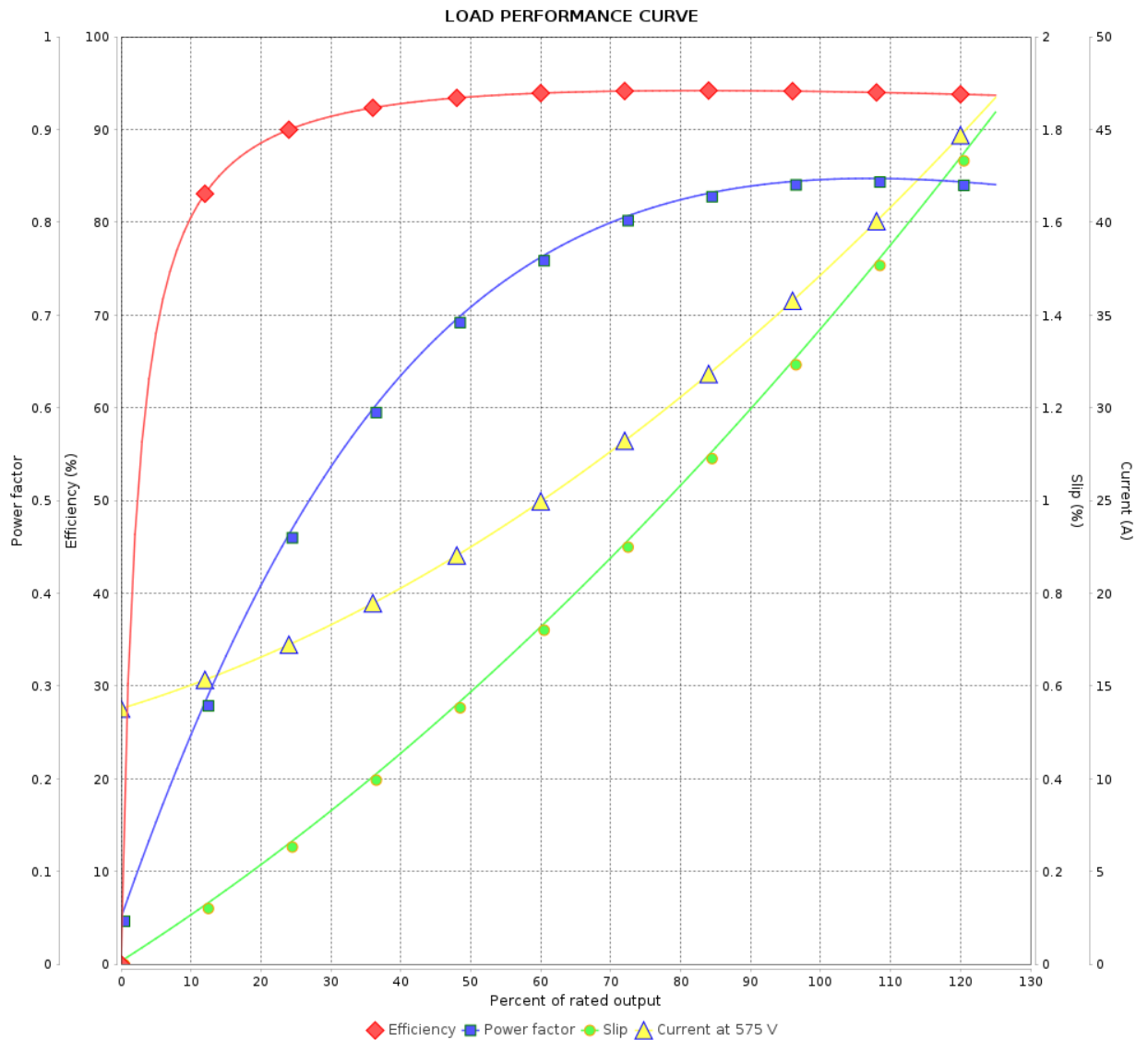
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium      Product code : 14679747  
Efficiency Three-Phase



Performance : 575 V 60 Hz 4P

|                     |             |                       |                           |
|---------------------|-------------|-----------------------|---------------------------|
| Rated current       | : 37.7 A    | Moment of inertia (J) | : 0.3861 kgm <sup>2</sup> |
| LRC                 | : 6.1       | Duty cycle            | : Cont.(S1)               |
| Rated torque        | : 16.4 kgfm | Insulation class      | : F                       |
| Locked rotor torque | : 229 %     | Service factor        | : 1.25                    |
| Breakdown torque    | : 240 %     | Temperature rise      | : 80 K                    |
| Rated speed         | : 1775 rpm  | Design                | : B                       |

| Rev.         | Changes Summary | Performed                | Checked | Date |
|--------------|-----------------|--------------------------|---------|------|
|              |                 |                          |         |      |
| Performed by |                 | Page 3 / 3      Revision |         |      |
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