

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 13924889

|                       |                           |                             |                        |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame                 | : 254/6T                  | Locked rotor time           | : 37s (cold) 21s (hot) |
| Output                | : 15 HP (11 kW)           | Temperature rise            | : 80 K                 |
| Poles                 | : 4                       | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz                   | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 230/460 V               | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 36.0/18.0 A             | Protection degree           | : IP55                 |
| L. R. Amperes         | : 230/115 A               | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 6.4x(Code G)            | Mounting                    | : F-1                  |
| No load current       | : 14.6/7.30 A             | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1770 rpm                | Noise level <sup>2</sup>    | : 64.0 dB(A)           |
| Slip                  | : 1.67 %                  | Starting method             | : Direct On Line       |
| Rated torque          | : 6.15 kgfm               | Approx. weight <sup>3</sup> | : 114 kg               |
| Locked rotor torque   | : 229 %                   |                             |                        |
| Breakdown torque      | : 250 %                   |                             |                        |
| Insulation class      | : F                       |                             |                        |
| Service factor        | : 1.25                    |                             |                        |
| Moment of inertia (J) | : 0.1104 kgm <sup>2</sup> |                             |                        |
| Design                | : B                       |                             |                        |

|                |       |      |      |      |                  |           |
|----------------|-------|------|------|------|------------------|-----------|
| Output         | 25%   | 50%  | 75%  | 100% | Foundation loads |           |
| Efficiency (%) | 0.000 | 91.0 | 91.7 | 92.4 | Max. traction    | : 166 kgf |
| Power Factor   | 0.00  | 0.68 | 0.78 | 0.83 | Max. compression | : 317 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 8.1          | 7.0          | 6.5           | 3.9          | 2.8          | 1.8           | 1.3            |

|                      | Drive end        | Non drive end |
|----------------------|------------------|---------------|
| Bearing type         | : 6309 C3        | 6209 C3       |
| Sealing              | : V'Ring         | Lip Seal      |
| Lubrication interval | : 20000 h        | 20000 h       |
| Lubricant amount     | : 13 g           | 9 g           |
| Lubricant type       | Mobil Polyrex EM |               |

### Notes

USABLE @208V 39.8A SF 1.15 SFA 45.8A

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         | 05/08/2026      |           |         |          |
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Customer :

### Brake information

Voltage: 440-480 V  
Brake Torque: 15.3 kgfm

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| Date         | 05/08/2026      |  |               |         |          |

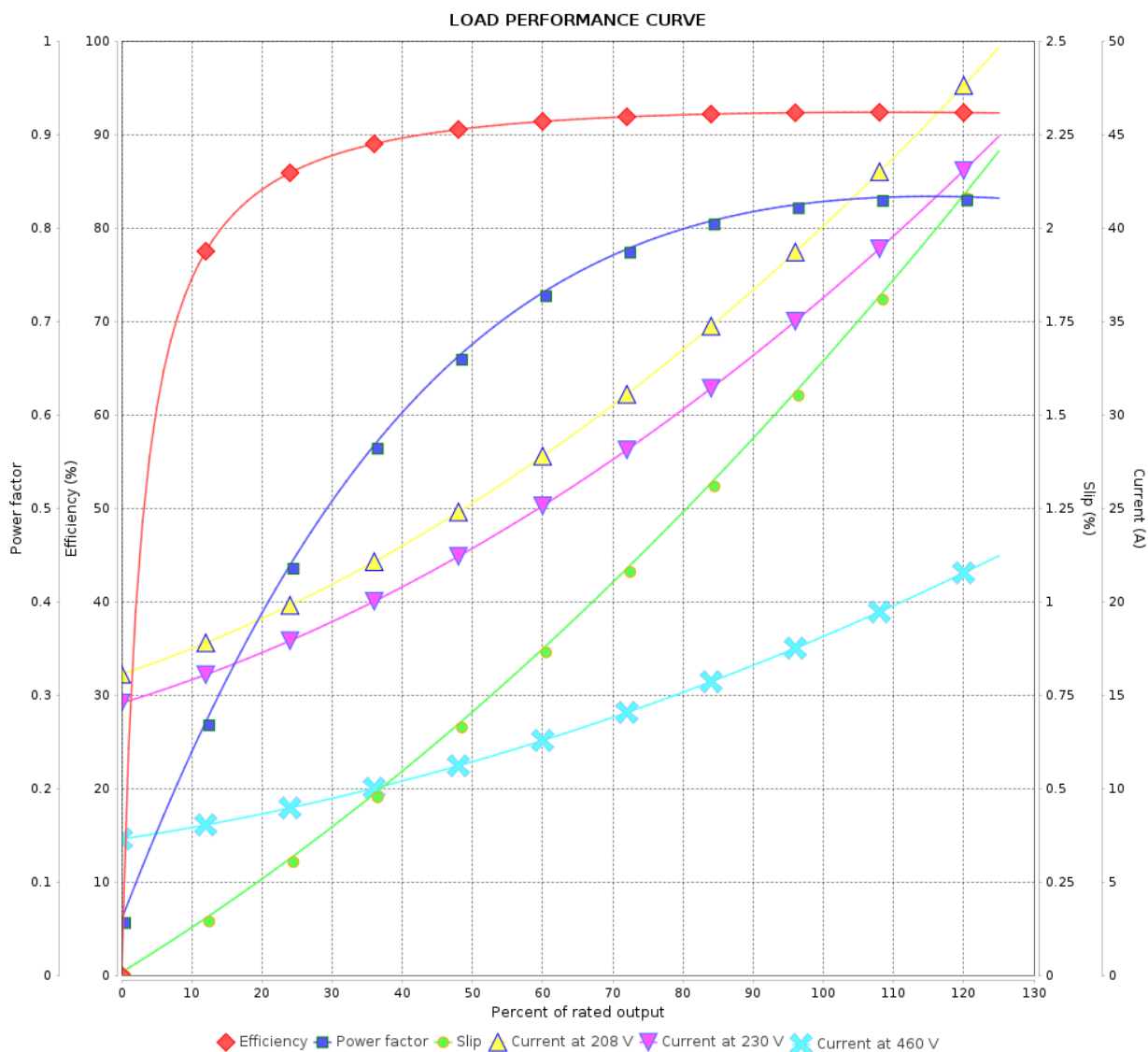
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium      Product code : 13924889  
Efficiency Three-Phase



Performance : 230/460 V 60 Hz 4P

Rated current : 36.0/18.0 A  
LRC : 6.4  
Rated torque : 6.15 kgfm  
Locked rotor torque : 229 %  
Breakdown torque : 250 %  
Rated speed : 1770 rpm

Moment of inertia (J) : 0.1104 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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