

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Product code : 14103843  
Efficiency Three-Phase

|                       |                           |                             |                         |
|-----------------------|---------------------------|-----------------------------|-------------------------|
| Frame                 | : 182/4T                  | Locked rotor time           | : 41s (cold) 23s (hot)  |
| Output                | : 3 HP (2.2 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         | : 8.02/4.01 A             | Protection degree           | : IP55                  |
| L. R. Amperes         | : 65.8/32.9 A             | Cooling method              | : IC411 - TEFC          |
| LRC                   | : 8.2x(Code K)            | Mounting                    | : F-1                   |
| No load current       | : 4.00/2.00 A             | Rotation <sup>1</sup>       | : Both (CW and CCW)     |
| Rated speed           | : 1765 rpm                | Noise level <sup>2</sup>    | : 56.0 dB(A)            |
| Slip                  | : 1.94 %                  | Vibration                   | : A                     |
| Rated torque          | : 1 kgfm                  | Starting method             | : Direct On Line        |
| Locked rotor torque   | : 220 %                   | Approx. weight <sup>3</sup> | : 41.0 kg               |
| Breakdown torque      | : 320 %                   |                             | : 207A (ISO 12944 - C3) |
| Insulation class      | : F                       |                             | : RAL 5009              |
| Service factor        | : 1.25                    | Design                      | : B                     |
| Moment of inertia (J) | : 0.0143 kgm <sup>2</sup> |                             |                         |

|                |      |      |      |                  |           |
|----------------|------|------|------|------------------|-----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |           |
| Efficiency (%) | 87.5 | 88.5 | 89.5 | Max. traction    | : 59 kgf  |
| Power Factor   | 0.58 | 0.69 | 0.77 | Max. compression | : 106 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 12.7         | 11.2         | 10.8          | 6.7          | 5.0          | 3.7           | 2.8            |

|                      | Drive end | Non drive end |
|----------------------|-----------|---------------|
| Bearing type         | : 6207 ZZ | 6206 ZZ       |
| Sealing              | : V'Ring  | Lip Seal      |
| Lubrication interval | : -       | -             |
| Lubricant amount     | : -       | -             |
| Lubricant type       | : 00088   |               |

Notes  
USABLE @208V 8.65A SF 1.15 SFA 9.95A

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         | 26/09/2026      |           |         |          |
|              |                 |           | Page    | Revision |
|              |                 |           | 1 / 3   |          |

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

### Brake information

Voltage: 440-480 V  
Brake Torque: 6.12 kgfm

| Rev.         | Changes Summary |  | Performed     | Checked | Date     |
|--------------|-----------------|--|---------------|---------|----------|
|              |                 |  |               |         |          |
| Performed by |                 |  | Page<br>2 / 3 |         | Revision |
| Checked by   |                 |  |               |         |          |
| Date         | 26/09/2026      |  |               |         |          |

# LOAD PERFORMANCE CURVE

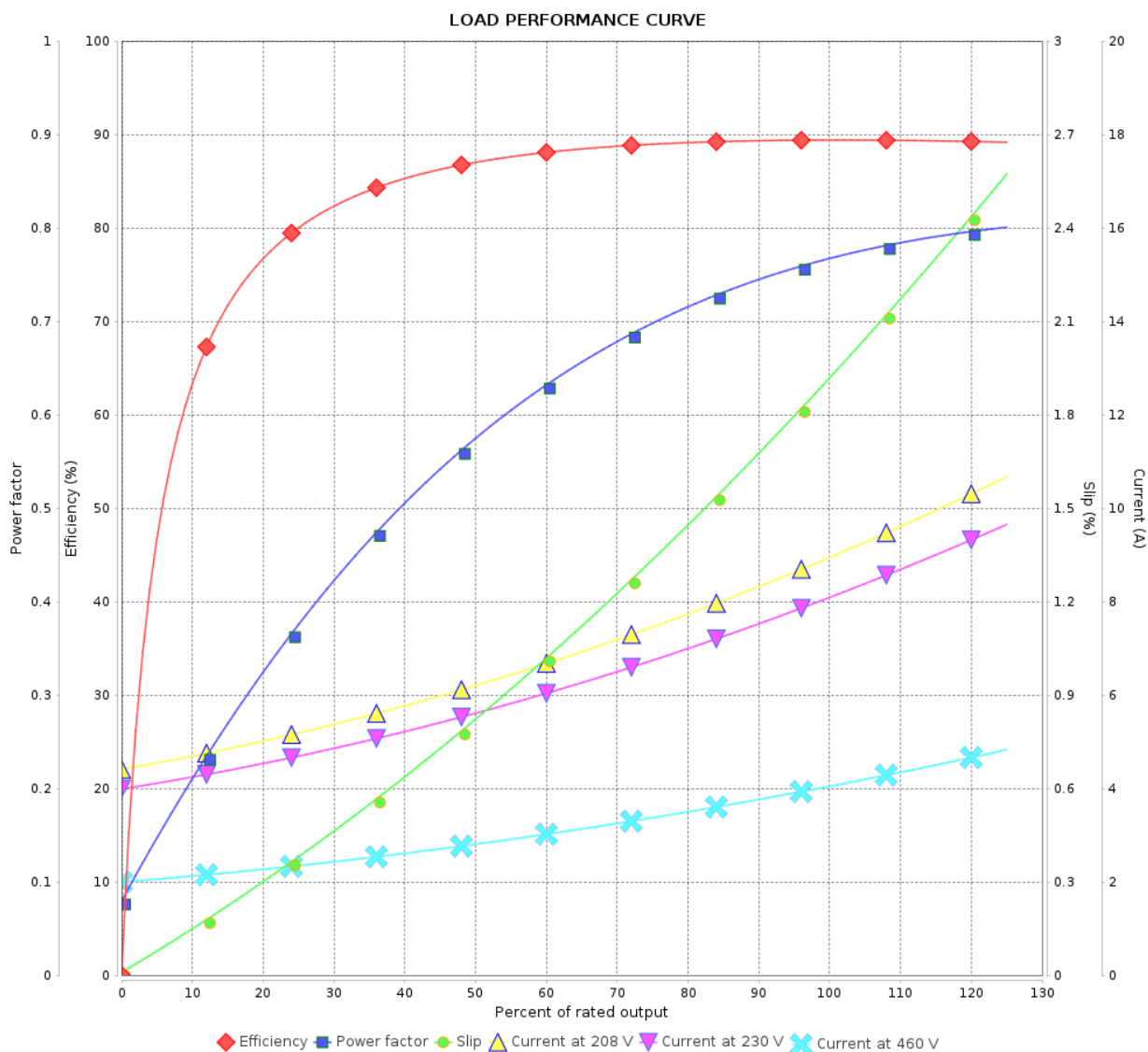
## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14103843



Performance : 230/460 V 60 Hz 4P

Rated current : 8.02/4.01 A  
LRC : 8.2  
Rated torque : 1 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 320 %  
Rated speed : 1765 rpm

Moment of inertia (J) : 0.0143 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 |
|--------------|-----------------|-----------------------|-----------|---------|------|
|              |                 |                       |           |         |      |
| Performed by |                 | Page<br>3 / 3Revision |           |         |      |
| Checked by   |                 |                       |           |         |      |
| Date         | 26/09/2026      |                       |           |         |      |