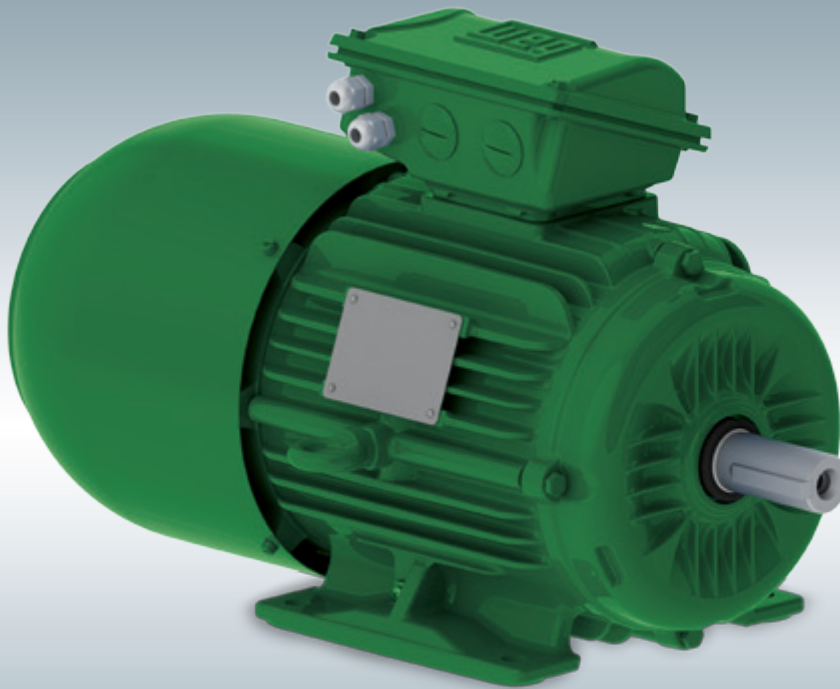


# W22 Brake Motor



Three Phase Electric Motor



## Standard Features

- Rated output: 0,12 kW to 75 kW
- Number of Poles: 2 to 8
- Frame size: 63 to 250S/M
- Frequency: 50 Hz
- Voltage:
  - 220-240/380-415 V (frames 63 to 100L)
  - 380-415/660 V (frames 112M and 250S/M)
- Brake power supply: 220-240 V
- Normally closed brake
- Design: N
- Insulation class: F (DT 80K)
- Degree of protection: IP55
- Mounting: B3T
- Cooling method: TEFC (Totally Enclosed Fan-Cooled) - IC411
- Frame and terminal box material: Cast iron FC-200
- Fan material: Plastic
- Shaft material: AISI 1040/45
- Ball bearings
- DE bearing seal:
  - V-ring (frames 63 to 200L)
  - WSeal® (frames 225S/M and 250S/M)
- NDE bearing: Lip seal
- Painting plan: 207A (frames 63 to 132M/L) and 203A (from frame 160M and up), classified as corrosion category C2, according to ISO 12944:2

## Optional Features

- Mounting: B35, B5, V1, V3, V6, among others.
- Degree of Protection: IP56, IP65, IP66
- Frequency: 60 Hz
- DE bearing seal: W3 Seal, taconite seal, INPRO/SEAL®
- Vibration level: Degree B
- Winding thermal protection: thermostat or thermistor
- Space heater
- Cable gland
- Drip cover
- Tropicalized internal painting
- Encoder (from frame 90S and up)
- Stainless steel screws
- Cooling method: TEBC – Totally enclosed blower cooled (IC 416)
- Insulation class: "H"
- Able to operate with frequency inverter\*
- Manual brake release (up to frame 200L)\*\*
- Microswitch to monitor the air gap or brake opening (from frame 100L up)
- Brake power supply:
  - 380-415 V
  - 440-480 V
- Additional terminal box for frames 160M to 250S/M

\*For motors able to operate with frequency inverter, WEG recommends the use of thermal protection on the winding.

\*\*Not available for frames 63 to 80 with terminal box on top.



# W22 Brake Motor

The W22 Brake Motor has been designed with identical technical features of the WEG W22 Motor platform, with emphasis to braking system and others such as:

- Frame structure that reduces air dispersion and improves the cooling
- Terminal box with greater internal space and easy handling
- Solid feet that simplify the motor alignment and installation
- Frame providing high mechanical strength and low vibration levels

This product is ideal for applications where sudden, precise and safe shutdowns are required, other than allowing control of positioning and energy saving.

## Optimisations of the braking system

### Brake

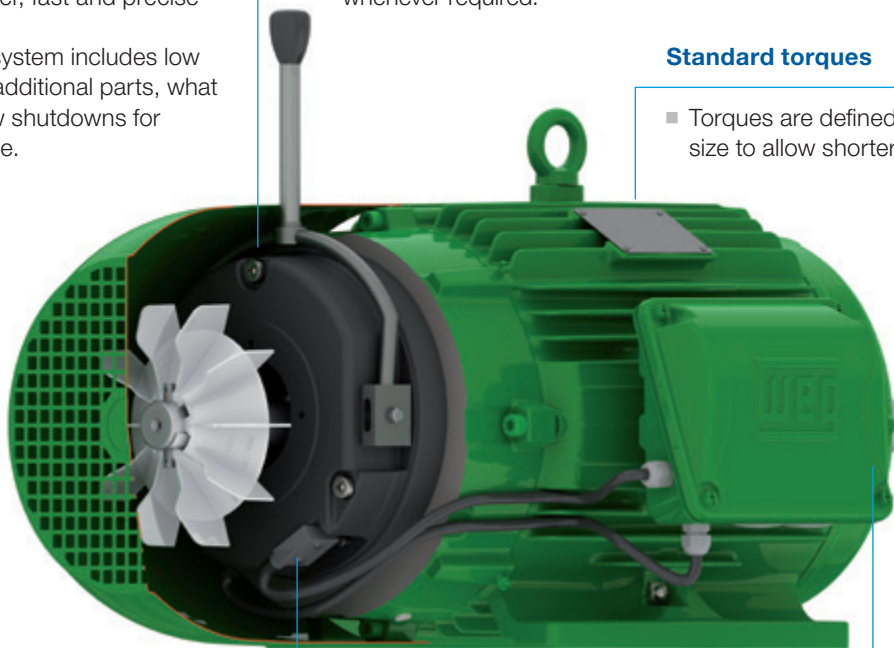
- The brake friction material reduces the wear.
- It is in line with the world's trend of brakes platform (interchangeability).
- It allows safer, fast and precise braking.
- The brake system includes low number of additional parts, what requires low shutdowns for maintenance.

### Manual release lever (optional)

- This system allows the motor to remain free at emergency conditions or whenever required.

### Standard torques

- Torques are defined based on frame size to allow shorter braking time.



### Microswitch (optional)

- Sensor for brake release monitoring (I/O) or brake wear
- It indicates when the brake needs to be replaced, hence not requiring manual monitoring.

### Rectifier

- It allows operation with voltage fluctuation up to 10%.
- Tough and compact construction allowing to be fitted inside the motor main terminal box.



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