MW500 – DECENTRALIZED VSD – MOTORDRIVE

Industrial Motors

Commercial & Appliance Motors

Automation

Digital & Systems

Energy

Transmission & Distribution

Coatings

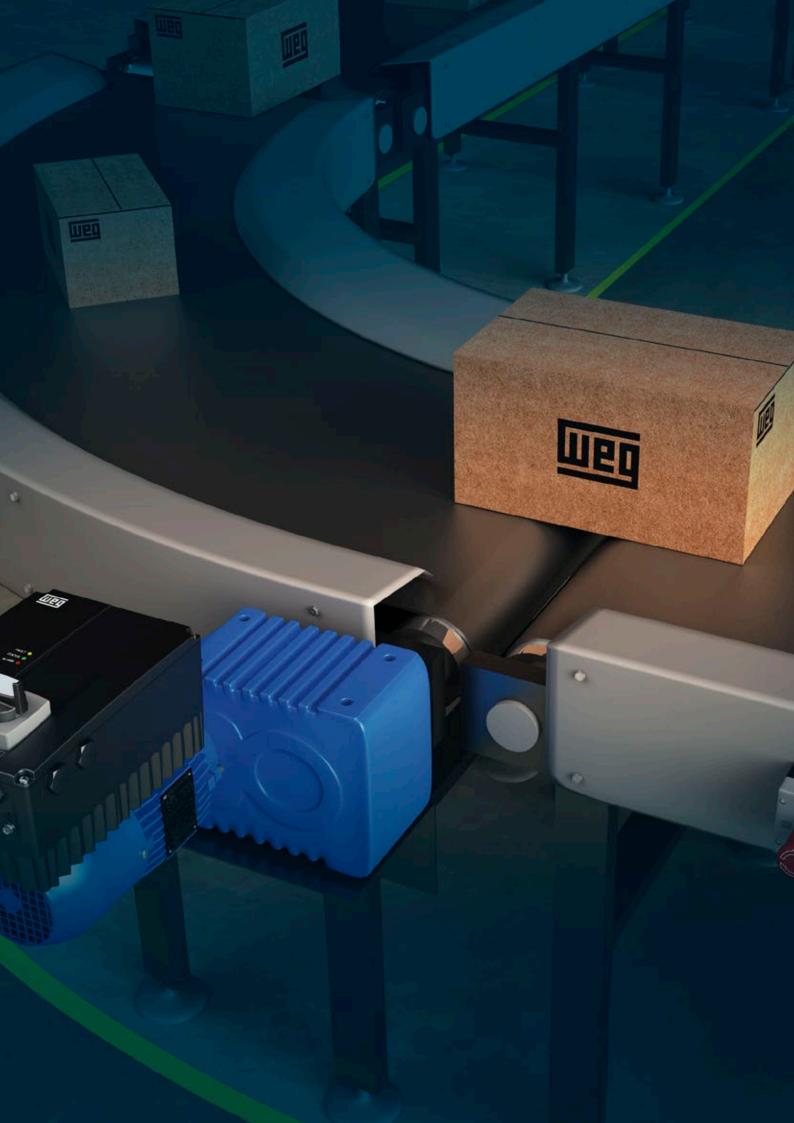
For decentralized solutions, the VSD wherever you need it.





SUMMARY

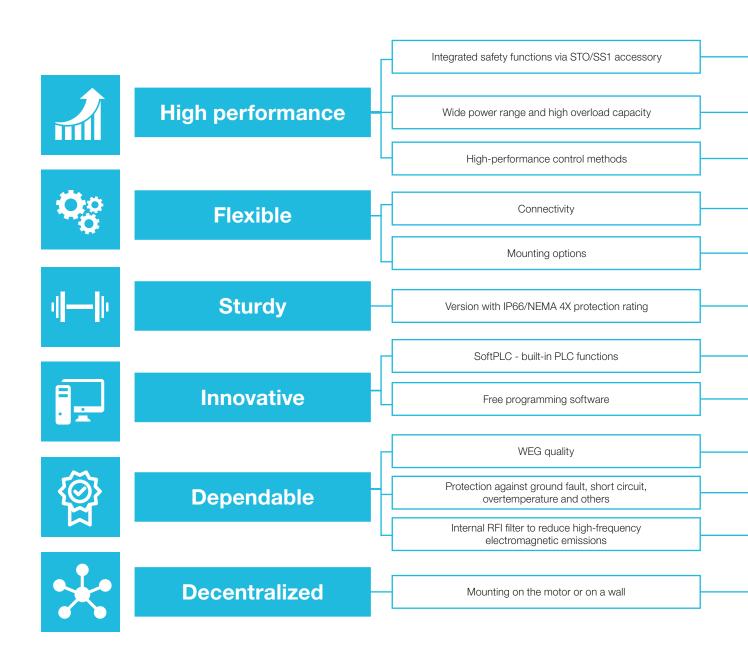
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MW500

For decentralized solutions, the VSD wherever you need it.

The MW500 is a high-performance frequency inverter used to control three-phase induction motors. Its dedicated functions and **high degree of protection (IP66/NEMA 4X)** allow its use in applications that require a **high level of precision and robustness**. Furthermore, the MW500 presents excellent **flexibility**, as it can be directly installed on the wall or mounted on the motor, reducing the cabling and panel costs.





STO (Safe Torque Off) and SS1 (Safe Stop 1) functions that meet safety performance requirements SIL 3/PLe, in accordance with IEC 61800-5-2, EN ISO 13849-1, EN 62061, IEC 61508 and IEC 60204-1

Models from 1.3 to 16 A (0.25 kW / 0.37 cv to 7.5 kW / 10 cv) at 200-240 V or 380-480 V

Offers a variety of control options, such as VVW vector control, V/F scalar, vector with encoder, sensorless vector and control for permanent magnets

USB communication modules and also for the main industrial networks, such as CANopen, DeviceNet, Profibus-DP, EtherNet/IP, PROFINET IO or Modbus-RTU

The VSD allows easy and practical wall mounting

Complete protection against contact with internal parts, preventing the ingress of dust or water

The VSD, motor and application can work interactively due to the possibility of customizing logic

Free WPS programming software available at www.weg.net

100% of inverters are factory tested under full load and maximum temperature conditions

Conformal coating or tropicalization level 3C2 as standard, in accordance with IEC 60721-3-3, and 3C3 as optional, for protection against corrosive gases in aggressive environments

Protects against damage to the VSD that may be caused by adverse situations, normally external factors

The MW500 can be mounted directly onto W22 motors using the terminal box fitting

Provides machine manufacturers with an excellent cost effective solution to implement protective measures and meet safety standards requirements

Allows the MW500 to be used in a wide range of applications, increasing their performance

Full integration with the process network

A convenient solution to optimize space and ensure efficient and safe installation

The high degree of protection does not require the use of a panel, reducing installation costs

Ideal for machine manufacturers

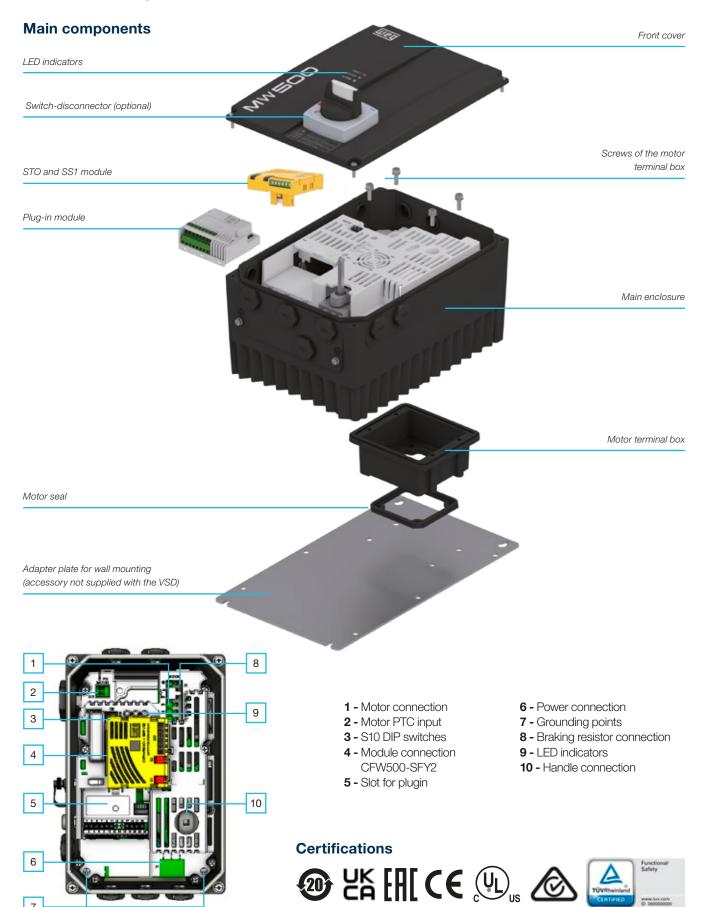
High reliability

Increases equipment lifespan

Facilitates commissioning by saving space and cables, that is, reducing installation costs



Easy configuration







Space saving and flexible solution



Reduced installation



Greater robustness



Easy commissioning



Reduced cable costs



No panel required

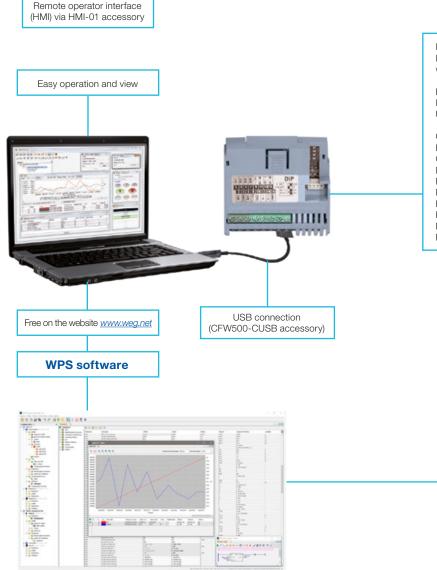


Connectivity



The MW500 can be interconnected to the main industrial communication networks, with worldwide protocols, such as CANopen, Profibus-DP, DeviceNet, PROFINET IO and EtherNet/IP, through plug-in modules.

Additionally, any plug-in module comes with a built-in RS485 Modbus-RTU serial interface.



I/O expansion:
IOS (standard, included in the version with plug-in), IOD, IOAD, IOR

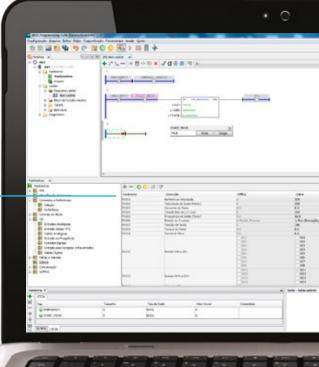
Expansion of functionalities:
Incremental encoder
USB

Communication protocols: Fieldbus

CANopen DeviceNet RS232

RS485 Profibus-DP EtherNet/IP

Modbus-TCP PROFINET IO



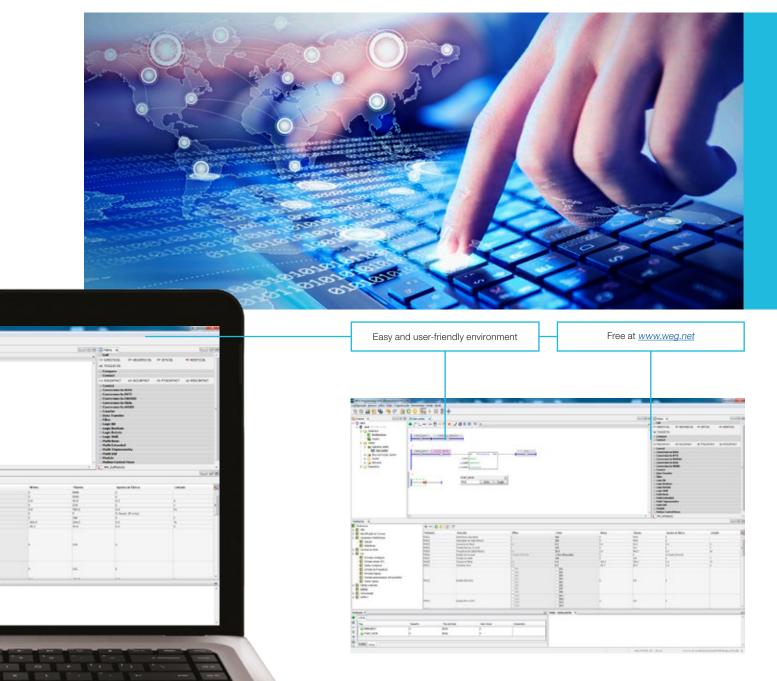
Selectable

accessories

Features

- Special engineering units (RPM, °C, Nm, mA, %, kW, kWh, among others)
- Password to protect the setting
- Backup of all parameters
- Up to two different programs can be saved on the memory of the MW500
- Setting of the switching frequency according to the application requirements
- Speed reference via electronic potentiometer
- Multispeed with up to eight programmable speeds
- Slip compensation
- Manual or automatic torque boost (V/F scalar mode) and self-adjustment (vector modes and VVW)
- Acceleration/deceleration ramps
- Permanent magnet motor control: VVW PM

- "S" type ramp
- DC braking
- Built-in braking IGBT
- PID controller for process control with process variable feedback
- Flying start / Ride through
- Sleep mode
- Configurable avoided frequency or frequency ranges
- Overload and overtemperature protection
- Overcurrent protection
- DC link voltage supervision
- Fault log
- STO and SS1 safety functions (accessory)





Built-in safety functions¹⁾

Safety functions are features used to reduce risks and protect people and equipment in the event of potentially dangerous failures in machines in operation. The built-in **STO** and **SS1** functions provide machine builders with a cost-effective solution for designing features to make machines comply with safety standards, reducing risks of unexpected and hazardous motions in machinery and industrial processes.

Advantages

- The MW500 safety features make it easier to meet machine safety requirements.
- Fewer components, no additional cabling required, saving space and installation costs.
- Easy installation, commissioning and maintenance.
- The absence of electromechanical components enables faster responses and a higher level of productivity.
- Due to SIL 3 safety level, the MW500 with safety functions does not require external safety relays for monitoring cables and emergency-stop pushbuttons.

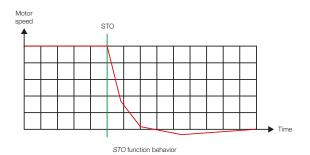


Safety functions

STO (Safe Torque Off)

This function immediately switches off the inverter output to the motor, disconnecting the supply of torque generating power. The *STO* function is also used for preventing unexpected machine starts or for emergency stops, in compliance with stop category 0 (IEC 60204-1).

It is applicable where the motor can be stopped soon enough by the load itself or when motor coasting is not safety-relevant.



SS1 (Safe Stop 1)

The SS1 function enables the motor deceleration ramp and, after the time set, automatically activates the STO function. It can be used to implement a controlled stop and then block the power supply to the motor, in compliance with stop category 1 according to IEC 60204-1.

This function is used when, in the event of a safety-related fault, the VSD must first stop the motor and then enter the STO state. A VSD stop using the SS1 function reduces the risk of accidents and eliminates the need for external safety timers, increasing machine productivity and allowing safety distances on machines to be reduced. The reason is the active stop of the drive compared to the exclusive use of the STO function.



Note: 1) The STO and SS1 safety functions are available on MW500 VSDs that contain G2 in the smart code. The CFW500-SFY2 plug-in is used as an accessory and is purchased separately. In compliance with SIL 3/PL safety performance requirements and with IEC 61800-5-2, EN ISO 13849-1, EN 62061, IEC 61508 and IEC 60204-1.



Applications



















Special characteristics



Remote HMISimple and user-friendly



IP66/NEMA 4X connector Special connector for remote HMI (M8) or external sensor



Cooling fins
No need for ventilation,
reducing maintenance
costs and noise



LED indicatorsProgrammable status indication



Internal analog
potentiometer
No HMI required for operation



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Built-in switch-disconnector (optional)

Easy and safe machine maintenance

Characteristics

Conformal coating

Standard Class 3C2 coating on the internal circuits of all versions, according to IEC 60721-3-3, guarantees more protection in environments with corrosive chemical agents.



RFI filter

Category C2 or C3 to reduce the electromagnetic interference emission.



IP66/NEMA 4X protection rating

Essential for decentralized solutions, IP66 provides protection against contact with energized internal parts and ingress of dust or water.



Black

The black color increases the dissipation capacity of the housing, helping the VSD withstand up to 50 °C when mounted on the motor without current derating.



SoftPLC

Functions to streamline operation and increase performance, in many cases, eliminating the need for an external PLC, optimizing and simplifying the system.



WPS

Free software for parameter configuration, and control and monitoring of the VSD, simulating an oscilloscope with the *Trend* function.



Coding¹⁾





- 2 MW500 size according to table 1 below
- 3 Rated output current according to table 1 below

| Supply line | Single-phase (S) | Three-phase (T) |
|-------------|--|---|
| оирріу ініе | 200-240 Vac | 380-480 Vac |
| Voltage | 02P1 = 2.1 A 02P9 = 2.9 A 03P4 = 3.4 A 04P3 = 4.3 A 06P0 = 6.0 A | 01P3 = 1.3 A 01P6 = 1.6 A 02P0 = 2.0 A 02P6 = 2.6 A 04P3 = 4.3 A 05P2 = 5.2 A 06P5 = 6.5 A 10P0 = 10.0 A 14P0 = 14.0 A 16P0 = 16.0 A |

4 - Number of phases

| · · · · · · · · · · · · · · · · · · · | |
|---------------------------------------|---------------------------|
| S | Single-phase power supply |
| Т | Three-phase power supply |

5 - Rated voltage

| 2 | 200-240 V |
|---|-----------|
| 4 | 380-480 V |

6 - Internal dynamic braking²⁾

| DB | With internal dynamic braking IGBT |
|----|------------------------------------|
|----|------------------------------------|

7 - Protection rating

| 66 | IP66 (NEMA 4X) protection rating |
|----|----------------------------------|
| | |

8 - Conducted emission level3)

| Blank | Without internal RFI filter |
|-------|---------------------------------------|
| C2 | With internal RFI filter - category 2 |

9 - Switch-disconnector

| Blank | Without switch-disconnector |
|-------|-----------------------------|
| DS | With switch-disconnector |

10 - Terminal box4)

| Blank | Motor connection box sizes 70 x 70 mm and 110 x 110 mm; applicable to frame C |
|-------|---|
| A56 | Motor connection box sizes 56 x 56 mm; applicable to frames A and B |
| A70 | Motor connection box sizes 70 x 70 mm; applicable to frames A and B |

11 - Special hardware versions - H xx

| H00 | Without plug-in module |
|-----|------------------------|
| | |

12 - Special software version - Sxx

| Blank | Standard software |
|-------|-------------------|
| Sxx | Special software |

13 - Generation

| Blank | Generation 1 |
|-------|--------------|
| G2 | Generation 2 |

| Frames | Model | Output current | Input | Supply voltage |
|--------|-------|----------------|-------------------------------|----------------|
| | 02P1 | 2.1 A | | |
| | 02P9 | 2.9 A | | |
| A | 03P4 | 3.4 A | S = single-phase power supply | 2 = 200240 V |
| | 04P3 | 4.3 A | | |
| | 06P0 | 6.0 A | | |
| | 01P3 | 1.3 A | | |
| | 01P6 | 1.6 A | | |
| A | 02P0 | 2.0 A | | |
| | 02P6 | 2.6 A | | |
| | 04P3 | 4.3 A | T three phase newer comply | 4 200 400 V |
| | 05P2 | 5.2 A | T = three-phase power supply | 4 = 380480 V |
| В | 06P5 | 6.5 A | | |
| | 10P0 | 10.0 A | | |
| С | 14P0 | 14.0 A | | |
| U | 16P0 | 16.0 A | | |

Notes: 1) Other configurations on request.

2) Braking resistor not included.

In order to minimize such problem, WEG variable speed drives contain common-mode capacitive filters, which are enough to avoid this type of interference in most

If necessary, our VSDs also have radio frequency (RFI) filters to reduce even more those high-frequency electromagnetic interference signals.

Definitions of IEC/EN 61800-3 standard.

Categories:

Category C1: variable speed drives with voltage rating below 1000 V and intended for application in the "First Environment".

Category C2: variable speed drives with voltage rating below 1000 V not provided with plugs or movable installations that, when applied in the "First Environment", must be installed and commissioned by a professional.

Category C3: variable speed drives with voltage ratings below 1000 V developed for application in the "Second Environment" and not designed for application in the "First Environment".

Environments: First Environment: environments that include domestic installations, such as establishments directly connected without intermediate transformers to the low voltage power line, which supplies buildings used for domestic purposes.

Second environment: environments that include all the buildings other than those directly connected to the low voltage power line, which supplies buildings used for domestic purposes

4) Frame C can use 70 mm and 110 mm box for connection; therefore, no specific code is required on the order for the 70 or 110 mm option.

³⁾ Conducted emission level (IEC 61800-3).



Specifications

Specifications and models

| MW500 variable speed drive Maximum applicable motor | | | | | | | | | | |
|--|---------|---------------|------------------|------------------------------------|--------------------------|------------------|------|------|--|--|
| Reference | Supply | voltage | Frame | Braking IGBT | Rated output current (A) | Power supply (V) | Pov | | | |
| | | | | | | | CV | kW | | |
| | | | | Models | | | | | | |
| ANUTS ASSESSED ASSESS | I | MW50 | O without disco | nnecting switch | and without RFI filter | | 0.5 | | | |
| MW500A02P1S2DB66XXXH00G2 | _ | | | | 2.1 | | 0.5 | 0.37 | | |
| MW500A02P9S2DB66XXXH00G2 | | | _ | | 2.9 | | 0.75 | 0.55 | | |
| MW500A03P4S2DB66XXXH00G2 | 200-240 | Single-phase | Α | | 3.4 | 220 | 1.0 | 0.75 | | |
| MW500A04P3S2DB66XXXH00G2 | | | | | 4.3 | | 1.5 | 1.1 | | |
| MW500A06P0S2DB66XXXH00G2 | | | | | 6.0 | | 2.0 | 1.5 | | |
| MW500A01P3T4DB66XXXH00G2 | | | | | 1.3 | | 0.5 | 0.37 | | |
| MW500A01P6T4DB66XXXH00G2 | | | | Internal - included - - - | 1.6 | | 0.75 | 0.55 | | |
| MW500A02P0T4DB66XXXH00G2 | | | Α | | 2.0 | | 1.0 | 0.75 | | |
| MW500A02P6T4DB66XXXH00G2 | _ | | | | 2.6 | | 1.5 | 1.1 | | |
| MW500A04P3T4DB66XXXH00G2 | 380-480 | Three-phase | | | 4.3 | 380 | 2.0 | 1.5 | | |
| MW500B05P2T4DB66XXXH00G2 | 300-400 | | | | 5.2 | | 3.0 | 2.2 | | |
| MW500B06P5T4DB66XXXH00G2 | | | В | | 6.5 | | 4.0 | 3.0 | | |
| MW500B10P0T4DB66XXXH00G2 | | | | | 10.0 | | 5.0 | 4.0 | | |
| MW500C14P0T4DB66H00G2 | | | С | | 14.0 | | 7.5 | 5.5 | | |
| MW500C16P0T4DB66H00G2 | | | | | 16.0 | | 10.0 | 7.5 | | |
| | | MW: | 500 without disc | connecting swite | ch and with RFI filter | | | | | |
| MW500A02P1S2DB66C2XXXH00G2 | | | | | 2.1 | | 0.5 | 0.37 | | |
| MW500A02P9S2DB66C2XXXH00G2 | | | | | 2.9 | | 0.75 | 0.55 | | |
| MW500A03P4S2DB66C2XXXH00G2 | 200-240 | Single-phase | Α | | 3.4 | 220 | 1.0 | 0.75 | | |
| MW500A04P3S2DB66C2XXXH00G2 | | | | | 4.3 | | 1.5 | 1.1 | | |
| MW500A06P0S2DB66C2XXXH00G2 | | | | | 6.0 | | 2.0 | 1.5 | | |
| MW500A01P3T4DB66C2XXXH00G2 | | | | | 1.3 | | 0.5 | 0.37 | | |
| MW500A01P6T4DB66C2XXXH00G2 | | | | Internal | 1.6 | | 0.75 | 0.55 | | |
| MW500A02P0T4DB66C2XXXH00G2 | | | A | Internal included | 2.0 | | 1.0 | 0.75 | | |
| MW500A02P6T4DB66C2XXXH00G2 | | | | Illoladod | 2.6 | | 1.5 | 1.1 | | |
| MW500A04P3T4DB66C2XXXH00G2 | 380-480 | Three-phase | | | 4.3 | 380 | 2.0 | 1.5 | | |
| MW500B05P2T4DB66C2XXXH00G2 | 300-400 | Tillee-bildse | | | 5.2 | 300 | 3.0 | 2.2 | | |
| MW500B06P5T4DB66C2XXXH00G2 | | | В | | 6.5 | | 4.0 | 3.0 | | |
| MW500B10P0T4DB66C2XXXH00G2 | | | | | 10.0 | | 5.0 | 4.0 | | |
| MW500C14P0T4DB66C2H00G2 | | | С | | 14.0 | | 7.5 | 5.5 | | |
| MW500C16P0T4DB66C2H00G2 | | | U | | 16.0 | | 10.0 | 7.5 | | |

Notes: 1) The power ratings for the maximum applicable motor shown in the table above are reference values and valid for WEG motors. The powers indicated are based on WEG W22 High Efficiency, IE2, three-phase, four-pole induction motors with a 220 V or 380 V power supply.

Proper sizing must always be determined according to the motor rated current, which must be less than or equal to the VSD rated output current. For further information, refer to the User Manual.

²⁾ The "XXX" in the smart code must be filled in with A56 or A70, with the MW500 terminal box matching the motor terminal box. For more details, check the "Motor and Inverter Mechanical Assembly" tables to select the code according to the specified motor.

³⁾ The current values are valid for mounting the MW500 VSD on a surface with an ambient temperature of 40 °C or a self-ventilated motor with an ambient temperature of 50 °C. For more information about installation on a motor at an ambient temperature of 40 °C, see the user manual.

Specifications

Specifications and models

| MW500 variable speed drive Maximum applicable motor | | | | | | | | | | | |
|---|---------|---|------------------|-----------------|--------------------------|------------------|------|------|--|--|--|
| Reference | Supply | y voltage | Frame | Braking IGBT | Rated output current (A) | Power supply (V) | Pov | wer | | | |
| | | | | | | | CV | kW | | | |
| | | | | Models | | | | | | | |
| | | MW50 | 00 without disco | nnecting switch | and without RFI filter | | 1 | | | | |
| MW500A02P1S2DB66DSXXXH00G2 | - | | | | 2.1 | | 0.5 | 0.37 | | | |
| MW500A02P9S2DB66DSXXXH00G2 | | | | | 2.9 | | 0.75 | 0.55 | | | |
| MW500A03P4S2DB66DSXXXH00G2 | 200-240 | Single-phase | Α | | 3.4 | 220 | 1.0 | 0.75 | | | |
| MW500A04P3S2DB66DSXXXH00G2 | | | | | 4.3 | | 1.5 | 1.1 | | | |
| MW500A06P0S2DB66DSXXXH00G2 | | | | _ | 6.0 | | 2.0 | 1.5 | | | |
| MW500A01P3T4DB66DSXXXH00G2 | | | | | 1.3 | | 0.5 | 0.37 | | | |
| MW500A01P6T4DB66DSXXXH00G2 | | | | Internal | 1.6 | | 0.75 | 0.55 | | | |
| MW500A02P0T4DB66DSXXXH00G2 | | | A | included | 2.0 | | 1.0 | 0.75 | | | |
| MW500A02P6T4DB66DSXXXH00G2 | | | | | 2.6 | 380 | 1.5 | 1.1 | | | |
| MW500A04P3T4DB66DSXXXH00G2 | 380-480 | Three-phase | | | 4.3 | | 2.0 | 1.5 | | | |
| MW500B05P2T4DB66DSXXXH00G2 | | · | В | | 5.2 | | 3.0 | 2.2 | | | |
| MW500B06P5T4DB66DSXXXH00G2 | | | | | 6.5 | | 4.0 | 3.0 | | | |
| MW500B10P0T4DB66DSXXXH00G2 | | | | | 10.0 | | 5.0 | 4.0 | | | |
| MW500C14P0T4DB66DSH00G2 | - | | С | | 14.0 | | 7.5 | 5.5 | | | |
| MW500C16P0T4DB66DSH00G2 | | <u> </u> | | | 16.0 | | 10.0 | 7.5 | | | |
| | | MW500 with disconnecting switch and with RFI filter | | | | | | | | | |
| MW500A02P1S2DB66C2DSXXXH00G2 | | | | | 2.1 | | 0.5 | 0.37 | | | |
| MW500A02P9S2DB66C2DSXXXH00G2 | | | _ | | 2.9 | | 0.75 | 0.55 | | | |
| MW500A03P4S2DB66C2DSXXXH00G2 | 200-240 | Single-phase | A | | 3.4 | 220 | 1.0 | 0.75 | | | |
| MW500A04P3S2DB66C2DSXXXH00G2 | | | | | 4.3 | | 1.5 | 1.1 | | | |
| MW500A06P0S2DB66C2DSXXXH00G2 | | | | | 6.0 | | 2.0 | 1.5 | | | |
| MW500A01P3T4DB66C2DSXXXH00G2 | | | | | 1.3 | | 0.5 | 0.37 | | | |
| MW500A01P6T4DB66C2DSXXXH00G2 | - | | | Internal | 1.6 | | 0.75 | 0.55 | | | |
| MW500A02P0T4DB66C2DSXXXH00G2 | | | Α | included | 2.0 | | 1.0 | 0.75 | | | |
| MW500A02P6T4DB66C2DSXXXH00G2 | | | | | 2.6 | | 1.5 | 1.1 | | | |
| MW500A04P3T4DB66C2DSXXXH00G2 | 380-480 | Three-phase | | | 4.3 | 380 | 2.0 | 1.5 | | | |
| MW500B05P2T4DB66C2DSXXXH00G2 | 1 | | | | 5.2 | | 3.0 | 2.2 | | | |
| MW500B06P5T4DB66C2DSXXXH00G2 | | | В | | 6.5 | | 4.0 | 3.0 | | | |
| MW500B10P0T4DB66C2DSXXXH00G2 | | | | | 10.0 | | 5.0 | 4.0 | | | |
| MW500C14P0T4DB66C2DSH00G2 | | | С | | 14.0 | | 7.5 | 5.5 | | | |
| MW500C16P0T4DB66C2DSH00G2 | | | Ü | | 16.0 | | 10.0 | 7.5 | | | |

Notes: 1) The power ratings for the maximum applicable motor shown in the table above are reference values and valid for WEG motors. The powers indicated are based on WEG W22 High Efficiency, IE2, three-phase, four-pole induction motors with a 220 V or 380 V power supply. Proper sizing must always be determined according to the motor rated current, which must be less than or equal to the VSD rated output current. For further information, refer to the User Manual.



²⁾ The "XXX" in the smart code must be filled in with A56 or A70, with the MW500 terminal box matching the motor terminal box. For more details, check the "Motor and Inverter Mechanical Assembly" tables to select the code according to the specified motor.

³⁾ The current values are valid for mounting the MW500 VSD on a surface with an ambient temperature of 40 °C or a self-ventilated motor with an ambient temperature of 50 °C. For more information about installation on a motor at an ambient temperature of 40 °C, see the user manual.



Accessories

Plug-in modules

You can choose the plug-in module for the MW500 later. In this case, subsequent selection of a plug-in module according to the table below is necessary.

You must always use one plug-in module for the MW500.

Due to the different connections, when equipped with the plug-in module with the STO/SS1 safety functions, the VSD will still be able to connect another plug-in module.

| Reference | Description | Illustrative figures |
|---------------------|---|--|
| | Input and output (I/O) expansion | |
| CFW500-IOS | Digital and analog input and output (I/O) plug-in module | |
| CFW500-IOD | Digital input and output (I/O) expansion plug-in module | - |
| CFW500-IOAD | Digital and analog input and output (I/O) expansion plug-in module | The street of |
| CFW500-IOR-B | Relay output expansion plug-in module | |
| | Functionality expansion | and the same of th |
| CFW500-ENC | Plug-in module with input for encoder | - |
| CFW500-CUSB | Plug-in module with USB port | BADDODDDDD |
| CFW500-SFY2 | Module with STO and SS1 safety functions | and the same of th |
| | Communication on Fieldbus networks | · · · · · · · · · · · · · · · · · · · |
| CFW500-CCAN | CAN communication plug-in module (CANopen/DeviceNet) | Macroson Boy |
| CFW500-CRS232 | RS232 communication plug-in module | |
| CFW500-CRS485-B | RS485 communication plug-in module | 1111 |
| CFW500-CPDP2 | Profibus-DP communication plug-in module | 3 |
| CFW500-CETH-IP | EtherNet/IP communication plug-in module | M Hanne |
| CFW500-CEMB-TCP | Modbus-TCP communication plug-in module | |
| CFW500-CEPN-IO | PROFINET IO communication plug-in module | _ |
| 0.11000 02.11.10 | Memory | |
| CFW500-MMF | Flash memory module | |
| ' | Interfaces | |
| CFW500-HMIR | Remote operator interface (HMI) | storagenda |
| HMI-01 | Alphanumeric HMI | TT-190001 |
| CFW500-RHMIF | Remote HMI frame | 800 |
| MW500-CCHMIR1M | 1-meter cable set for remote operator interface (HMI) | |
| MW500-CCHMIR2M | 2-meter cable set for remote operator interface (HMI) | |
| MW500-CCHMIR3M | 3-meter cable set for remote operator interface (HMI) | 1898 |
| MW500-CCHMIR5M | 5-meter cable set for remote operator interface (HMI) | |
| MW500-CCHMIR75M | 7,5-meter cable set for remote operator interface (HMI) | |
| MW500-CCHMIR10M | 10-meter cable set for remote operator interface (HMI) | |
| | Kits | |
| MW500-KCFA-CL56 | Adapter plate for wall mounting - Frame A and terminal box 56 x 56 mm | |
| MW500-KCFA-CL70 | Adapter plate for wall mounting - Frame A and terminal box 70 x 70 mm | |
| MW500-KCFB-CL56 | Adapter plate for wall mounting - Frame A and terminal box 56 x 56 mm | 1 |
| MW500-KCFB-CL70 | Adapter plate for wall mounting - Frame A and terminal box 70 x 70 mm | 4 |
| MW500-KCFC | Adapter plate for the VSD wall mounting - Frame C | |
| MW500-KAIM-A56 | Adapter plate for the VSD motor mounting - Frame A and terminal box 56 x 56 mm | |
| MW500-KAIM-A70 | Adapter plate for the VSD motor mounting - Frame A and terminal box 70 x 70 mm | |
| MW500-KAIM-B56 | Adapter plate for the VSD motor mounting - Frame B and terminal box 56 x 56 mm | 1 |
| MW500-KAIM-B70 | Adapter plate for the VSD motor mounting - Frame B and terminal box 70 x 70 mm | 1 |
| | Optional items | |
| RFI filter | Filter to reduce the conducted disturbance of the MW500, in accordance with standards EMC EN 61800-3 and EN 55011 | |
| Switch-disconnector | A built-in disconnector for easy and safe maintenance | |

Note: 1) The plug-in modules are sold separately as an accessory item or spare part.

Accessories

Plug-in module configuration¹⁾

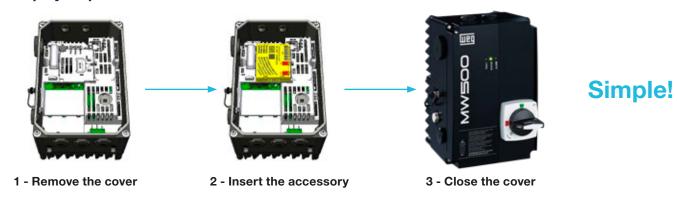
| | | | | | | | Function | ons | | | | | | | | | |
|-------------------|-----------------|-----|--------|----------------------------------|---|-------------|-------------|---------------------------------------|----------------------|-------|--------|-------------|-------------|------------|-------------|-------|--------|
| | Inp | uts | | Outputs | | | | | | | Fieldl | ous net | works | | | Power | supply |
| Plug-in module | Digital Analog | | Analog | Digital Digital relay transistor | | STO/ SS1 | USB port | Input for encoder ³⁾ | CANopen DeviceNet | RS232 | RS485 | Profibus-DP | EtherNet/IP | Modbus-TCP | PROFINET 10 | 10 V | 24 V |
| CFW500-IOS | 4 | 1 | 1 | 1 | 1 | - | - | - | - | - | 1 | - | - | - | - | 1 | 1 |
| CFW500-IOD | 8 | 1 | 1 | 1 | 4 | - | - | - | - | - | 1 | - | - | - | - | 1 | 1 |
| CFW500-IOAD | 6 | 3 | 2 | 1 | 3 | - | - | - | - | - | 1 | - | - | - | - | 1 | 1 |
| CFW500-IOR-B | 5 ²⁾ | 1 | 1 | 4 | 1 | - | - | - | - | - | 1 | - | - | - | - | 1 | 1 |
| CFW500-ENC | 5 ²⁾ | 1 | 1 | 4 | 1 | - | - | 1 | - | - | 1 | - | - | - | - | 1 | 1 |
| CFW500-CUSB | 4 | 1 | 1 | 1 | 1 | - | 1 | - | - | - | 1 | - | - | - | - | 1 | 1 |
| CFW500-SFY24) | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - |
| CFW500-CCAN | 2 | 1 | 1 | 1 | 1 | - | - | - | 1 | - | 1 | - | - | - | - | 1 | - |
| CFW500-CRS232 | 2 | 1 | 1 | 1 | 1 | - | - | - | - | 1 | 1 | - | - | - | - | - | 1 |
| CFW500-CRS485-B | 4 | 2 | 1 | 2 | 1 | - | - | - | - | - | 2 | - | - | - | - | 1 | 1 |
| CFW500-CPDP2 | 2 | 1 | 1 | 1 | 1 | - | - | - | - | - | 1 | 1 | - | - | - | - | 1 |
| CFW500-CETH-IP | 2 | 1 | 1 | 1 | 1 | - | - | - | - | - | 1 | - | 1 | - | - | - | 1 |
| CFW500-CEMB-TCP | 2 | 1 | 1 | 1 | 1 | - | - | - | - | - | 1 | - | - | 1 | - | - | 1 |
| CFW500-CEPN-IO | 2 | 1 | 1 | 1 | 1 | - | - | - | - | - | 1 | - | - | - | 1 | - | 1 |

Notes: 1) All plug-in module models have at least one RS485 port. The CFW500-CRS485 plug-in module has two RS485 ports. The CFW500 allows the installation of one plug-in module per unit.

- 2) The DI5 input is always NPN, and it cannot be configured for PNP like the others.
- 3) Incremental Encoder (A/A B/B).
- See the installation guides of the plug-in modules on the website www.weg.net.

 4) It enables the use with one more accessory on the same drive, due to its installation being on top of the product.

Step by step

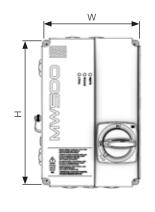


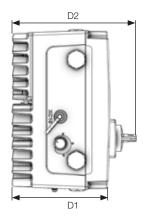
Dimensions and weights

Version IP66/NEMA 4X

| Fromo | Н | W | D1 | D2 | Weight |
|-------|--------------|--------------|--------------|--------------|------------|
| Frame | mm [in] | mm [in] | mm [in] | mm [in] | kg [lb] |
| Α | 240 [9.45] | 161.5 [6.36] | 147.1 [5.79] | 193.9 [7.63] | 4.2 [9.3] |
| В | 269 [10.61] | 190 [7.48] | 163.5 [6.44] | 210.3 [8.28] | 5.4 [11.9] |
| С | 304.5 [12.0] | 220.9 [8.7] | 193.6 [7.62] | 240.4 [9.46] | 9.1 [20.1] |

Note: VSD without wall mounting bracket.

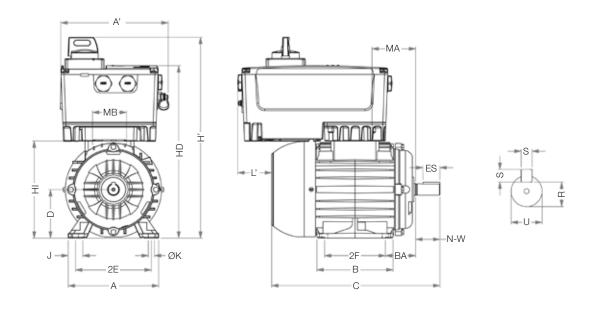






Motor and drive mechanical mounting combination¹⁾

| | M | otor | MW500 | | | | | | | | | | | IEMA dir | mension | S | | | NEMA dimensions | | | | | | | |
|-----------|------------------------|--|------------------------|--------|-------|--------|----------|-------------|------------|-------|--------------|-------------|-------------|----------|-------------|--------|--------|--------|-----------------|-------|-------|-------|-------|-------|--------|--|
| | Motor frame size | Motor terminal box mounting points/ MW500 mounting points (mm) | VSD housing size | 2E | J | А | 2F | В | ВА | U | N-W | ES | S | R | S | D | н | С | МА | МВ | ØН | A' | H' | HD | Ľ | |
| | 143T | | Α | | | | | | | | | | | | | | | 12.346 | | | | 6.99 | 14.64 | 11.93 | 1.69 | |
| | 1401 | | В | | | | 4 000 | 5.157 | | | | | | | | | | | 3.148 | | | 8.1 | 15.32 | 12.62 | 2.83 | |
| | L143T | | Α | | | | 1.000 | 0.107 | | | | | | | | | | 13.566 | | | | 6.99 | 14.64 | 11.93 | 0.47 | |
| | L1401 | 56x56 | В | 5.500 | 1.437 | 6.457 | | | 2.250 | 0.875 | 5 2.250 | 1 575 | 0 187 | 0.765 | 0.187 | 3.500 | 7 043 | | | 2.205 | 0.344 | 8.1 | 15.32 | 12.62 | 1.61 | |
| | 145T | M5 | Α | 0.000 | 1.407 | 0.407 | | | 2.200 | 0.070 | | 1.070 | 0.107 | 0.700 | 0.107 | 0.000 | 7.040 | 13.346 | | 2.200 | 0.044 | 6.99 | 14.64 | 11.93 | 1.69 | |
| | 1401 | | В | | | | 5 000 | 6.142 | | | | | | | | | | | 3.640 | | | 8.1 | 15.32 | 12.62 | 2.2 | |
| | L145T | | Α | | | | 0.000 | 0.142 | | | | | | | | | | 14.566 | | | | 6.99 | 14.64 | 11.93 | 0.47 | |
| | L1401 | | В | | | | | | | | | | | | | | | 14.000 | | | | 8.1 | 15.32 | 12.62 | 0.98 | |
| | 182T | | A | | | | | 5.945 | | | | | | | | | | 14.860 | | | | 6.99 | 16.57 | 13.86 | 0.445 | |
| = | | | В | | | | 4 500 | | | | | | | | | | 8 883 | | | | | 8.1 | 17.23 | 14.5 | 1.545 | |
| NEMA (in) | L182T | | A | | | | 4.000 | 0.0.0 | | | | | | | | | | 16.041 | | | | 6.99 | 16.57 | 13.86 | -0.736 | |
| 빌 | | 56x56 | В | 7.500 | 1.594 | 8.661 | | | 2.750 | 1.125 | 2.750 | 2.750 1.969 | 69 0.250 | 0 0.984 | 0.250 | 4.500 | | | | | | 8.1 | 17.23 | 14.5 | 0.364 | |
| | 184T | M6 | Α | | | | | | 200 | | | | | | | | | 15.860 | | | | 6.99 | 16.57 | 13.86 | -0.07 | |
| | | | В | | | | | 6.969 | | | | | | | | | | | | | | 8.1 | 17.23 | 14.5 | 1.03 | |
| | L184T | | Α | | | | | | | | | | | | | | | 17.041 | | | | 6.99 | 16.57 | 13.86 | -1.251 | |
| | | | В | | | | 5.500 | | | | | | | | | | | | | 2.756 | 0.406 | 8.1 | 17.23 | 14.5 | -0.151 | |
| | 213T | | В | | | | | | | | | | | | | | | 18.021 | | | | 8.1 | 19.04 | 16.31 | -0.09 | |
| | | | С | | | | | 7.362 | | | | | | | | | | | 4.884 | | | 9.50 | 20.09 | 17.42 | 1.53 | |
| | L213T | | В | | | | | | | | | | | | | | | 19.527 | | | | 8.1 | 19.04 | 16.31 | -1.596 | |
| | | 70x70 | С | 8.500 | 1.988 | 9.764 | Ш | | 3.50 | 1.375 | 3.375 | 2.480 | 0.313 | 1.203 | 0.313 | 5.250 | 10.762 | | | | | 9.50 | 20.09 | 17.42 | 0.024 | |
| | 215T | M6 | В | | | | | | | | | | | | | | | 19.517 | | | | 8.1 | 19.04 | 16.31 | 0.65 | |
| | | | С | | | | 7.000 | 8.858 | | | | | | | | | | | 5.634 | | | 9.50 | 20.09 | 17.42 | 0.01 | |
| | L215T | | В | | | | | 000 8.858 | | | | | | | | | | 20.905 | | | | 8.1 | 19.04 | 16.31 | -0.738 | |
| | | | С | | | | | | | | | | | | | | | | | | | 9.50 | 20.09 | 17.42 | -1.378 | |
| | 254T | | С | 10.000 | 2.539 | 12.126 | \vdash | .252 10.000 | 4.250 | | 4.000 | 2.456 | | | | 6.250 | 12.746 | 23.213 | | | | 9.50 | 22.07 | 19.41 | -1.6 | |
| | 256T | 110x110 | С | | | | 10.000 | | .732 4.750 | 3 | .625 4.000 2 | 2.456 | 0.375 1.406 | 0.375 | 0.230 12.74 | | 24.945 | 7.085 | | 0.531 | 9.50 | 22.07 | 19.41 | -2.6 | | |
| | 284TS | M8 | С | 11.000 | 3.110 | 13.780 | | 11.732 | | | 3.250 2 | 2.480 | | | 7.000 | 14.087 | 25.061 | 7.335 | | | 9.50 | 23.42 | 20.7 | -3.2 | | |
| | 284T | | С | | | | | | | | 4.622 | 3.149 | 0.500 | 1.594 | 0.500 | | | 26.433 | | | | 9.50 | 23.42 | 20.7 | -3.2 | |

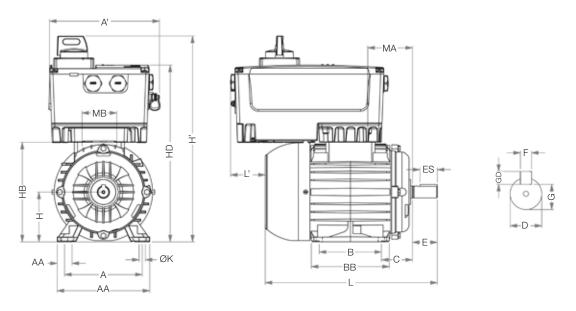


Note: 1) Dimensions considering the MW500 G2.



Motor and drive mechanical mounting combination

| | N | Motor | MW500 | | | | | | | | | | | IEC dim | ensions | | | | | | | | | | | | | |
|----------|------------------------|---|------------------------|-----|------|-----|---------|-------|-----------|---------|-----|----|----|---------|---------|-----|-----|-----|-------|----|------|-------|------------|------------|-----------|-----|-----|-----|
| | Motor frame size | Motor terminal box mounting points/ MW500 mounting points (mm) | VSD housing size | А | AA | АВ | В | ВВ | С | D | Е | ES | F | G | GD | н | НВ | L | MA | МВ | ØК | A' | н' | HD | ני | | | |
| | 70 | | Α | 112 | 20 | 132 | 90 | 113.5 | 45 | 14 | 30 | 18 | 5 | 10 | 5 | 71 | 142 | 250 | 62 | | 7 | | 335 | 288 | 63 | | | |
| | 80 | | Α | 125 | 30.5 | 149 | | 125.5 | 50 | 19j6 | 40 | 28 | 6 | 15.5 | 6 | 80 | 160 | 276 | 72 | | | 177.6 | 353 | 306 | 55 | | | |
| | L80 | | Α | 120 | 30.3 | 143 | | 120.0 | 30 | 13,0 | 40 | 20 | Ů | 10.0 | Ů | 00 | 100 | 325 | 12 | | | 177.0 | 555 | 300 | 6 | | | |
| | 90S | | Α | | | | 100 | | | | | | | | | | | 304 | | | | | 373 | 326 | 43 | | | |
| | 300 | | В | | | | 100 | 131 | | | | | | | | | | 004 | 78 | | | 206 | 391 | 344 | 72 | | | |
| | L90S | | A | | | | | | | | | | | | | | | 335 | | | 10 | 177.6 | 373 | 326 | 12 | | | |
| | 2000 | 56x56 | В | 140 | 36.5 | 164 | | | 56 | 24j6 | 50 | 36 | | 20 | | 90 | 180 | | | | | 206 | 391 | 344 | 41 | | | |
| | 90L | M5x0.8 | Α | | | 104 | | | | - ,,- | ** | ** | | | | ** | | 329 | | 56 | | 177.6 | 373 | 326 | 30 | | | |
| | | | В | | | | 125 | 156 | | | | | | | | | | | 90.5 | | | 206 | 391 | 344 | 59 | | | |
| | L90L | | А | | | | | | | | | | | | | | | 360 | | | | 177.6 | 373 | 326 | -1 | | | |
| | | | В | | | | | | | | | | | | | | | | | | | 206 | 391 | 344 | 28 | | | |
| | 100L | | А | | | | | | | | | | 8 | | 7 | | | 376 | | | | 177.6 | 393 | 346 | 9 | | | |
| | | | В | 160 | 40 | 188 | | 173 | 63 | | | | | | | 100 | 200 | | | | | 206 | 411 | 364 | 38 | | | |
| Ê | L100L | | A | | | | | | | | | | | | | | | 420 | | | | 177.6 | 393 | 346 | -35 | | | |
| IEC (mm) | | | В | | | | | | | | | | | | | | | | | | | 206 | 411 | 364 | -6 | | | |
| = | | | A | | | | | | | 28j6 | 60 | 45 | | 24 | | | | | 105 | | | 177.6 | 417 | 370 | -2 | | | |
| | 112M | | В | | | | | | 70 | | | | | 24 | | | | 393 | | | | 206 | 434 | 387 | 27 | | | |
| | | | С | 190 | 40.5 | 220 | 140 | 177 | | | | | | | | 112 | 224 | | | | | 240.9 | 464 | 418 | 35 | | | |
| | | | A | - | | | | | | | | | | | | | | | | | | 177.6 | 417 | 370 | -32 | | | |
| | L112M | | В | - | | | | | | | | | | | | | | 423 | | | | 206 | 434 | 387 | -3 | | | |
| | | | С | | | | | | | | | | | | | | | | | | | 240.9 | 464 | 418 | 5 | | | |
| | 132S | | В | | | | | | | | | | | | | | | 452 | | | 12 | 206 | 483 | 436 | -3 | | | |
| | | | С | | | | | 187 | | | | | | | | | | | 124.1 | 70 | | 240.9 | 512 | 466 | 18 | | | |
| | L132S | 70x70 M6x1.0 | B C | | | | | | | | | | | | | | | 477 | | | | 206 | 483 | 436 | -28 | | | |
| | | IIIOX1.0 | В | | | | | | | | | | | | | | | | | | | 240.9 | 512 483 | 466 436 | -7 -18 | | | |
| | 132M | | С | | | | | | | | | | | | | | | 490 | | | | 240.9 | 512 | 466 | -10 | | | |
| | | | В | 216 | 45 | 248 | 178 | 225 | 89 | 38k6 | 80 | 63 | 10 | 33 | | 132 | 272 | | 143.1 | | | 206 | 483 | 436 | -43 | | | |
| | L132M | | С | | | | | | | | | | | | 8 | | | | | | | 240.9 | 512 | 466 | -43 | | | |
| | | | В | | | | | | | | | | | | | | | 515 | | | | 206 | 483 | 436 | -30,6 | | | |
| | 132M/L | | С | - | | | | | | | | | | | | | | | | | | 240.9 | 512 | 466 | -15.6 | | | |
| | L132M/L | | В | | | | 178/203 | 250 | | | | | | | | | | | 155.5 | | | 206 | 483 | 436 | -54.6 | | | |
| | | | C | | | | | | | | | | | | | | | 539 | | | | 240.9 | 512 | 466 | -39.6 | | | |
| | 160M | 110x110 | С | | | | _ | 254 | ─ 108 l 4 | 08 42k6 | | | | | | | | | | | 598 | 157.8 | 110 | | 240.9 | 565 | 518 | -47 |
| | 160L | M8x1.25 | С | 254 | 64 | 308 | | 298 | | | 110 | 80 | 12 | 37 | | 160 | 324 | 642 | 178.5 | | 14.5 | 240.9 | 565 | 518 | -91 | | | |
| | | | | | | | | _50 | | | | | | | | | | | 1 | | | 0.0 | - 50 | | J. | | | |





Standards

| | | UL 508C - Power conversion equipment |
|-----------|----------------------------|--|
| | | UL 840 - Insulation coordination including clearances and creepage distances for electrical equipment |
| | | EN 61800-5-1 - Safety requirements electrical, thermal and energy |
| | | EN 50178 - Electronic equipment for use in power installations |
| | Safety standards | EN 60204-1 - Safety of machinery. Electrical equipment of machines. Part 1: general requirements Note: In order to have a machine in accordance with this standard, the manufacturer of the machine is responsible for installing an emergency stop device and a device for disconnecting the power line. |
| | | EN 60146 (IEC 146) - Semiconductor converters |
| | | EN 61800-2 - Adjustable speed electrical power drive systems - Part 2: general requirements - Rating specifications for low voltage adjustable frequency AC power drive systems |
| | | EN 61800-3 - Adjustable speed electrical power drive systems - Part 3: EMC product standard including specific test methods |
| Standards | | EN 55011 - Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment |
| | | CISPR 11 - Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement |
| | Electromagnetic | EN 61000-4-2 - Electromagnetic compatibility (EMC) - Part 4: testing and measurement techniques - Section 2: electrostatic discharge immunity test |
| | compatibility standards | EN 61000-4-3 - Electromagnetic compatibility - Part 4: testing and measurement techniques - Section 3: ratiated, radio-frequency, electromagnetic field immunity test |
| | | EN 61000-4-4 - Electromagnetic compatibility - Part 4: testing and measurement techniques - Section 4: electrical fast transient/burst immunity test |
| | | EN 61000-4-5 - Electromagnetic compatibility - Part 4: testing and measurement techniques - Section 5: surge immunity test |
| | | EN 61000-4-6 - Electromagnetic compatibility - Part 4: testing and measurement techniques - Section 6: immunity to conducted disturbances, induced by radio-frequency fields |
| | Mechanical | EN 60529 - Degrees of protection provided by enclosures (IP code) |
| | construction | UL 50 - Enclosures for electrical equipment |





Technical data

| Power | Power supply | Tolerance: -15 to +10% Frequency: 50/60 Hz (48 Hz to 62 Hz) Phase imbalance: ≤3% of the rated phase-phase input voltage |
|-------------------------------|-------------------------------------|---|
| | | Maximum of 10 (line) connections per hour (1 every 6 minutes) Typical efficiency: ≥97% |
| Control | Method | Control types: V/F (scalar) WW: voltage vector control Vector without encoder (sensorless) and vector with encoder WW PM: voltage vector control for permanent magnet motors |
| | Output frequency | 0 to 500 Hz, resolution of 0.015 Hz |
| | V/F control | Speed regulation: 1% of the rated speed (with sleep compensation) Speed variation range: 1:20 |
| | Vector control (VVW) | Speed regulation: 1% of the rated speed Speed variation range: 1:30 |
| Performance | Vector without encoder (sensorless) | Regulation: 0.5% of the rated speed Speed variation range: 1:100 |
| | Vector with encoder | Regulation: ±0.01% of the rated speed Speed variation range: 1:100 |
| | VVW PM ⁴⁾ control | Regulation: 0.1% of the rated speed Speed variation range: 1:20 |
| Braking methods | Dynamic braking | Available as standard for frames A, B and C An external resistor must be used for dynamic braking capability |
| | Temperature around the CFW500 | -10 °C to 40 °C - for wall mounting -10 °C to 50 °C - for mounting using self-ventilated motor at rated speed 2% current derating for each degree Celsius above the operating temperature, limited to an increase of 10 °C |
| Environmental conditions | Air relative humidity | 5% to 95% non-condensing |
| | Altitude | Up to 1,000 m (maximum altitude under normal conditions) 1,000 to 4,000 m: current derating of 1% for each 100 m above 1,000 m of altitude From 2,000 to 4,000 m maximum voltage derating (380-480 V models) of 1.1% for every 100 meters above 2,000 m altitude |
| | Protection rating | IP66/NEMA 4X |
| | Analog | 1 isolated input Levels: (0 to 10) V or (0 to 20) mA or (4 to 20) mA Linearity error \leq 0.25% Impedance: 100 k Ω for voltage input, 500 Ω for current input Programmable functions, including PTC input Maximum voltage accepted in the inputs: 30 Vpc |
| Inputs ⁽⁾ | Digital | 4 isolated inputs Programmable functions: Active high (PNP): maximum low level 15 Vpc; minimum high level 20 Vpc Active low (NPN): maximum low level 5 Vpc; minimum high level 9 Vpc Maximum input voltage 30 Vpc Input current: 4.5 mA Max input current: 5.5 mA |
| | Analog | 1 isolated output Levels (0 to 10) V or (0 to 20) mA or (4 to 20) mA Linearity error \leq 0.25% Programmable functions RL \geq 10 k Ω (0 to 10 V) or RL \leq 500 Ω (0 to 20 mA / 4 to 20 mA) |
| Outputs ¹⁾ | Relay | 1 relays with NO/NC contact Maximum voltage: 240 Vac Maximum current 0.5 A Programmable functions |
| | Transistor | 1 open sink isolated digital output (uses the 24 Voc source as reference) Maximum current 150 mA (maximum source capacity 24 Voc) ²⁹ Programmable functions |
| | Power supply | Power supply 24 Voc Maximum capacity: 150 mA ²⁾ Power supply 10 Voc. Maximum capacity: 2 mA |
| Communication | Plug-in modules | Fieldbus: Modbus-RTU, CANopen, DeviceNet, Profibus-DP, EtherNet/IP, Modbus-TCP, PROFINET IO Portas USB, RS485, RS232 and Bluetooth® |
| Safety | Protection | Overcurrent/phase-phase short circuit in the output Overcurrent/phase-ground short circuit in the output Under/overvoltage in the power Overtemperature on the heatsink Motor overload (1.5 x In (inverter) for 1 minute, every 10 minutes) ⁵⁾ Power module (IGBTs) overload External fault / alarm Setting error STO and SS1 safety functions (accessory) |
| Human machine interface (HMI) | CFW500-HMIR Accessory | 9 keys: Run/Stop, Increment, Diercetion of Rotation, Jog, Local/Remote, Back/Esc and Enter/Menu LCD display It allows accessing/changing all the parameters Precision of the indications: Current 5% of the rated current Speed resolution: 0.1 Hz |

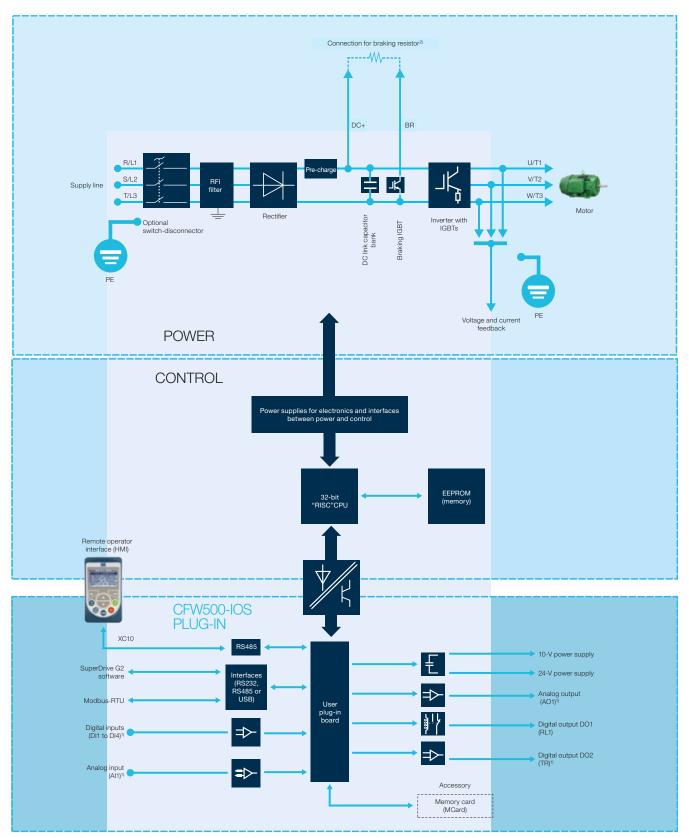
Notes: 1) The number and/or types of analog/digital inputs/outputs may vary according to the plug-in module used. In the table above, the CFW500-IOS plug-in module was considered. For further information, refer to the module user manual.

- 3) Designed for exclusive industrial or professional use.
- 4) The VVW PM function is available for all VSDs with firmware version V3.XX or higher.
- 5) For the 0.37 kW and 0.55 kW models of the 380-480 V line, the overload capacity is 4 x ln.

²⁾ The maximum capacity of 150 mA considers the load of the 24-V power supply plus the transistor output, that is, the sum of the consumption of both must not exceed 150 mA.



Block diagram



Notes: 1) The number of inputs and outputs (analog and digital), as well as other resources, may vary according to the plug-in module used. For further information, see the manual for the plug-in used.

²⁾ Resistor not included. IGBT braking included across the entire MW500 line.



Global Presence

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WEG's know-how guarantees the MW500 - Decentralized VSD - Motordrive are the right choice for your application and business, assuring safety, efficiency and reliability.



Availability is to have a global support network



Partnership is to create solutions that suits your needs



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