

MW500

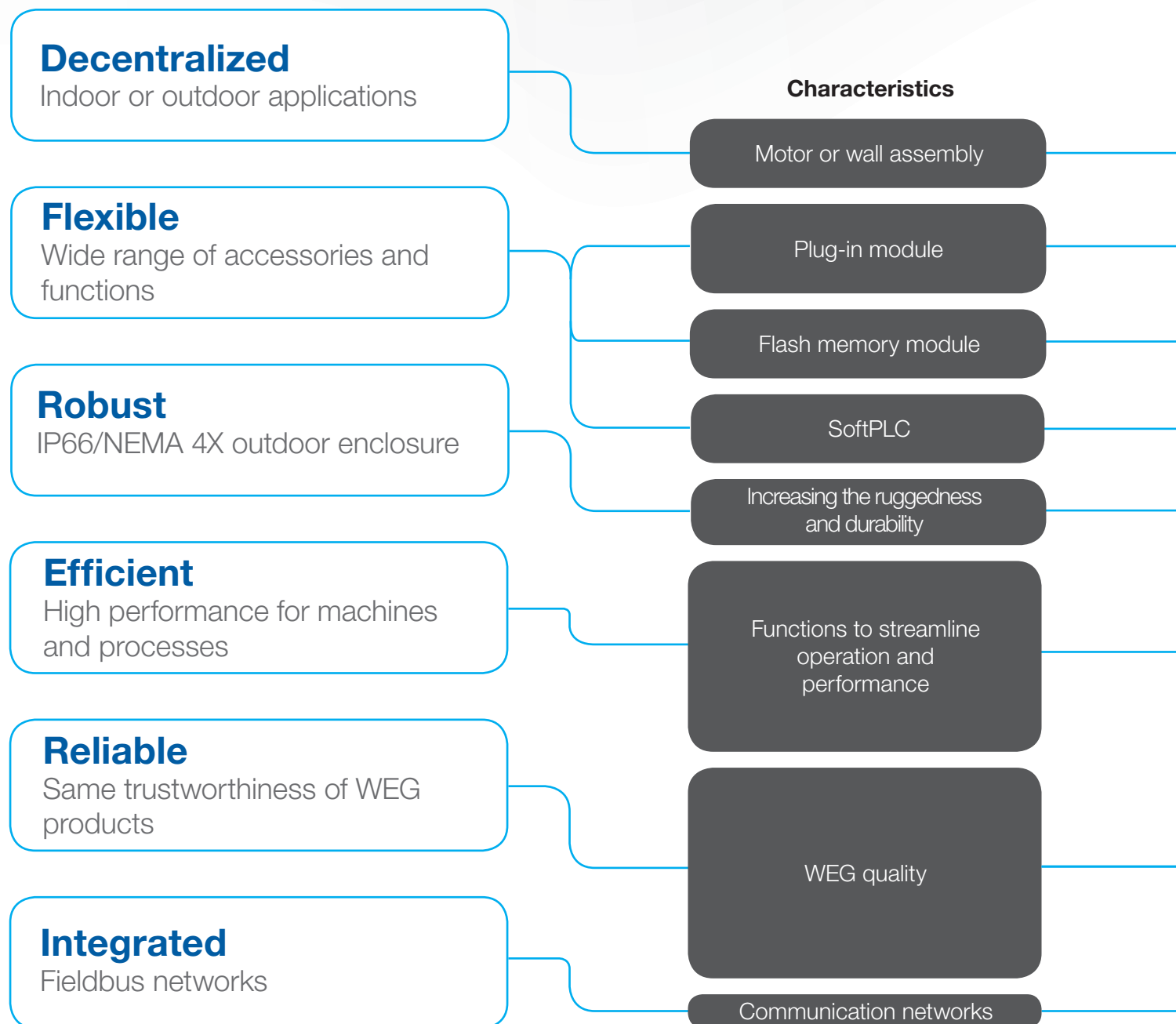
Decentralized VSD MotorDrive



MW500

The VSD wherever you need

The MW500 is a high performance product dedicated for induction motor control, with embedded features and a high protection degree of IP66 / NEMA 4X which allow decentralized installation directly on the motor or on a wall. Designed exclusively for industrial or professional use, the decentralized WEG VSD adds a great deal of flexibility, allowing the user to install the product near to the controlled motor, thus eliminating the necessity of long cables and panels.





Advantages

Benefits

It is possible for the MW500 to be assembled on a wall or, using the terminal box coupling directly over the W22 or W21 motors.

Makes the commissioning easy, saving space and cabling, in other words, reducing cost for all installation.

The optional communication network and I/O modules are fast and easily to be installed, allowing adaptation of the standard VSD to each application.

Time saving, standardization and optimized costs according to the necessity.

Within seconds, it is possible to download the SoftPLC program and parameters setup from a MW500 to others without powering them up.

Fast, easy and reliable programming for manufacturers that produce machines in large scale.

Built-in PLC (SoftPLC), allowing the VSD, motor and application to work in an interactive way. It allows the user to implement customized logic and applications.

It eliminates the necessity of an external PLC, reducing costs, optimizing space and simplifying the system.

Complete protection against contact with internal live parts, avoiding the entrance of dust or water coming from jets.

Panel not required, reducing the installation costs.

PID: process control.
Sleep: disables the VSD automatically.

Energy saving.

Flying start: allows to start a motor that was running freely, accelerating it from the speed at which it was running.

It allows fast operating response of the machine and prevents occasional mechanical breakdowns.

Ride through: keeps the VSD in operation during voltage dips.

It prevents machine stoppage and downtime.

100% of the VSDs are tested with load at the factory under rated conditions.

High reliability.

Protection against ground fault, short circuit, over temperature and others.

It prevents damage to the inverter which can be caused by adverse situations, normally external factors.

Thermal protection of IGBTs based on manufacturer curve.

Conformal Coating (Tropicalization) as Standard. Classified as 3C2 according to IEC 60721-3-3.

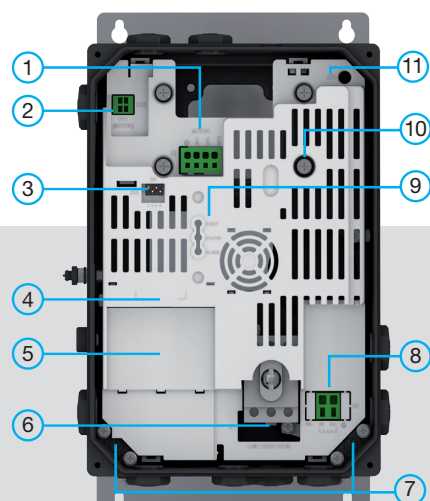
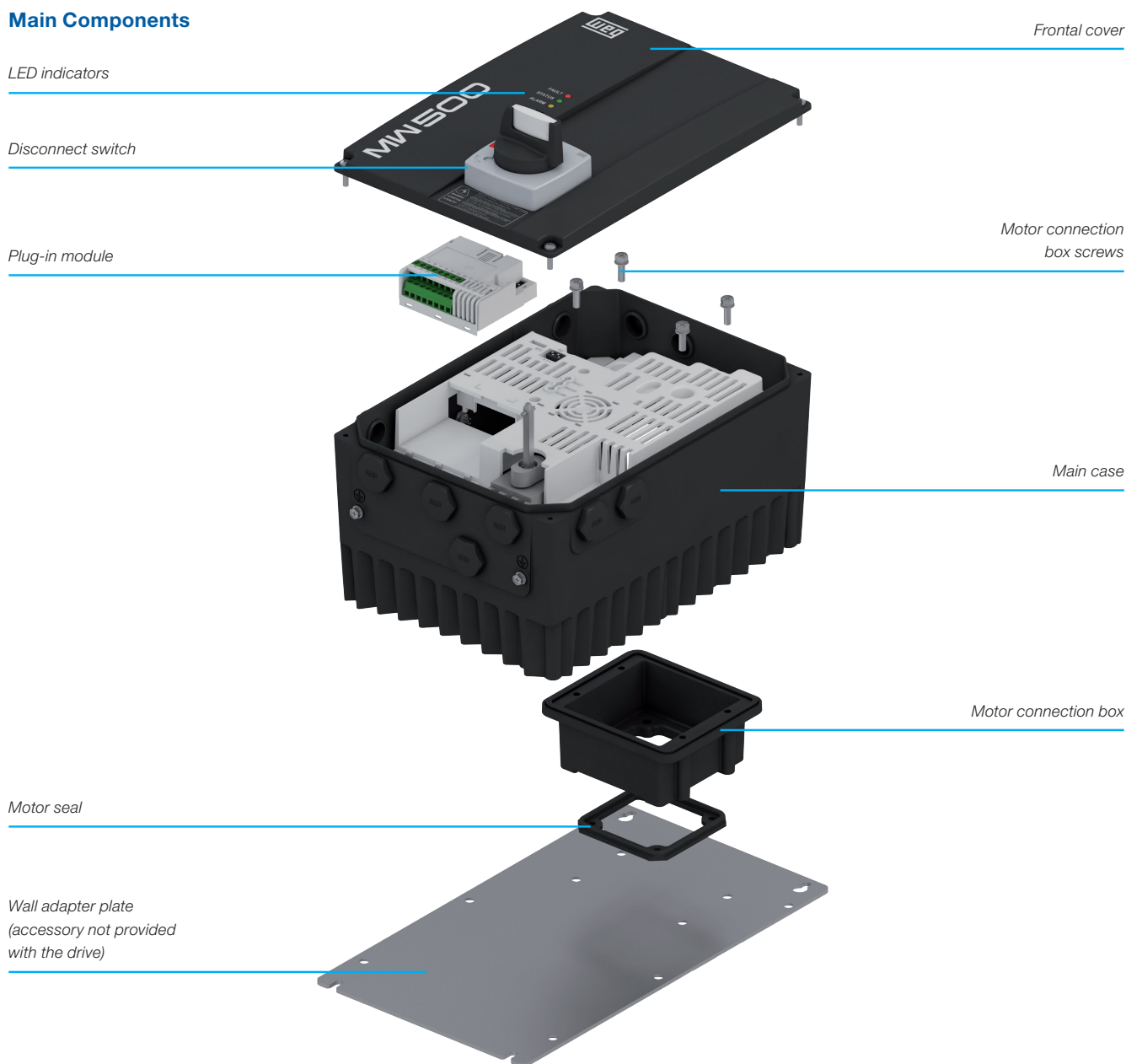
VSD lifetime is extended: protection against chemically active substances, related to contamination from the atmosphere.

CANopen, DeviceNet, Profibus-DP and Modbus-RTU.

Full integration with process network.

Easy Configuration

Main Components



Certifications



Applications

Centrifugal pumps

Compressors

Process pumps

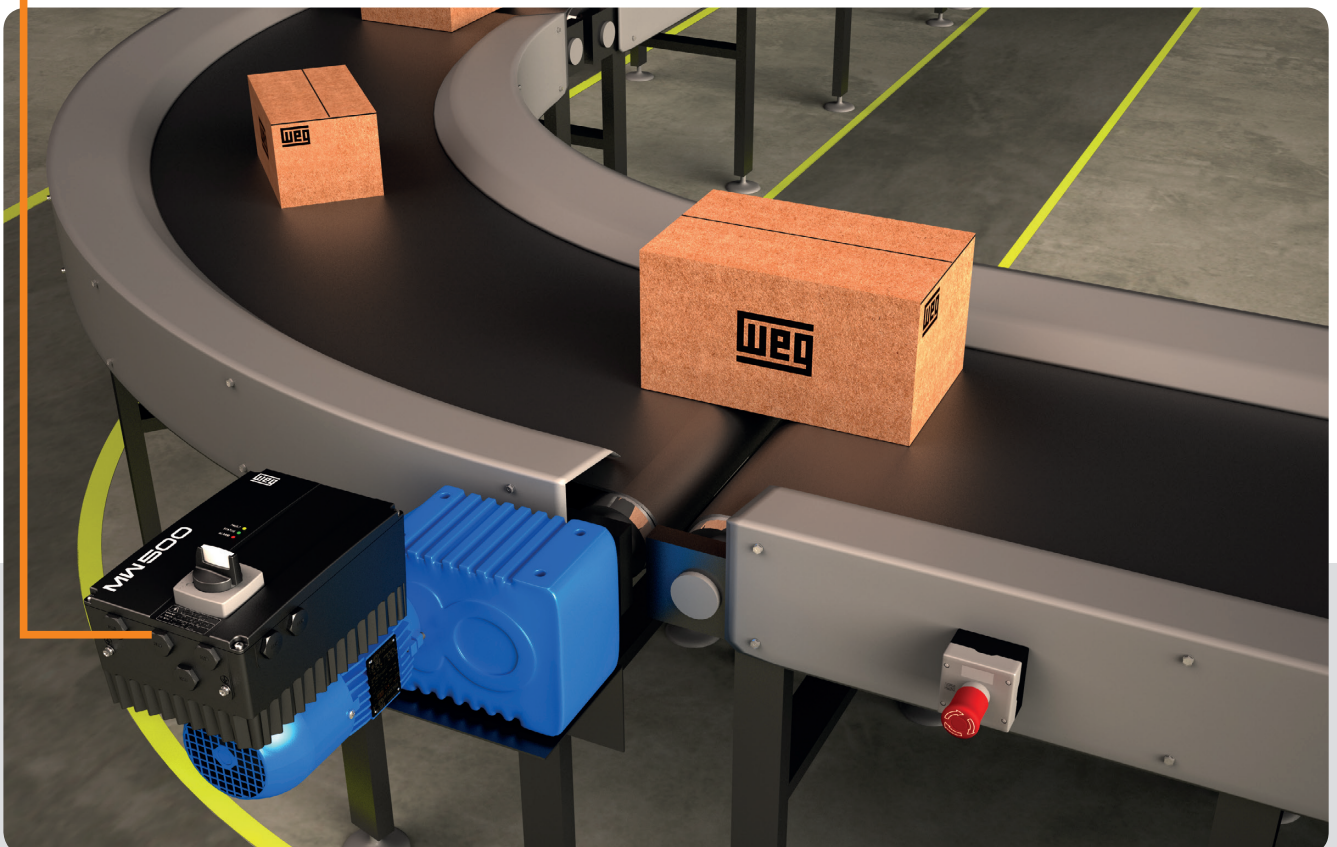
Fans/exhaust fans

Mixers/bottlers

Washers/driers

Conveyor belts

General machinery



Special Features



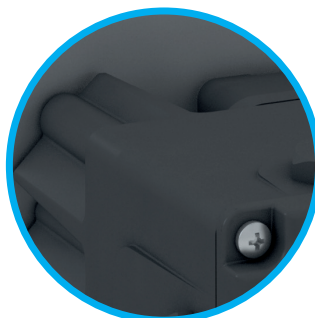
Conector IP66/NEMA 4X

Special conector for Remote HMI (M8)



Analog Potentiometer Built-In

No need HMI to operate



Fins Instead of Fan

Reduce maintenance cost



LED Indicators

Status indication



Remote HMI

Simple and intuitive



Switch-Disconnecter Built-In (Optional)

Easy and safe machine maintenance

Characteristics

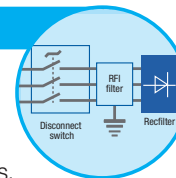
Conformal Coating

Increasing the lifetime, protecting the electronic boards against corrosive atmospheres. Classified as 3C2 according to IEC 60721-3-3.



RFI Filter

With C2/C3 options, the VSD faces a reduction in the EMC level, some cases even more, taking advantage of the motor and VSD distance, thus increasing the EMC class.



IP66/NEMA 4X Protection Degree

Key to the decentralized solution, the IP66 provides protection against contact with internal live parts and the ingress of dust or water.



Black Color

The black color increases the enclosure dissipation capability, helping the drive support up to 50 °C on motor mounting without derating.



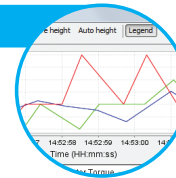
SoftPLC

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



SuperDrive G2

Special software, allowing the parameter setting, command and monitoring of VSD, in this last option, simulating an oscilloscope with Trend function.





MORE savings!



Space saving and flexible solution



Increased ruggedness



Cost savings on cables



Reduced installation costs



Easy commissioning



Panel not required



space



costs

Up to
40%
of cost
reduction

SuperDrive G2

Software application to program, control and monitor WEG VSDs. To connect MW500 to a computer it is necessary to use a plug-in module.



USB plug-in module

Friendly environment

FREE download at www.weg.net

Trend Function

- Online graphic monitoring of parameters/variables
- Possibility to export an image with the respective graph based upon the selected period

Changing and Monitoring Parameters in a List/Table

Parameter settings can be stored in a computer file format.

Number	Function	Minimum	Maximum	Factory Setting	User Setting	Unit
0	Access to Parameters	0	9999	0	0	
1	Speed Reference	0	65535	0	30	
2	Motor Speed	0	65535	0	30	
3	Motor Current	0	200	0	0.1	A
4	DC Link Voltage (Vd)	0	2000	0	311	V
5	Motor Frequency	0	500	0	2.5	Hz
6	VFD Status	0	7	0: Ready	1: Run	
7	Motor Voltage	0	2000	0	23	V
9	Motor Torque	-1000	1000	0	-5.2	%
11	Motor Current	-1	1	0	0.75	
12	DI8 to DI1 Status	00000000b	11111111b	00000000b	00000000b	
13	DO5 to DO1 Status	00000000b	01111111b	00000000b	00000001b	
14	AO1 Value	0	100	0	4.3	%
15	AO2 Value	0	100	0	1.4	%
16	FO % Value	0	100	0	0	%
17	FO Hz Value	0	20000	0	0	Hz
18	AI1 Value	-100	100	0	0	%
19	AI2 Value	-100	100	0	0	%
20	AI3 Value	-100	100	0	-100	%
21	FI % Value	-100	100	0	0	%
22	FI Hz Value	0	20000	0	0	Hz
23	Main SW Version	0	655.35	0	1.14	
24	Sec. SW Version	0	655.35	1.11	1	
27	Plug-In Mod. Config.	00000000b	00001001b	00000000b	00000001b	
29	Power HW Config.	00000000b	00111111b	00000000b	00000011b	
30	Heatsink Temperature	-20	150	0	25	°C
37	Motor Overload Int	0	100	0	0	%
40	PID Process Variable	0	3000	0	0	
41	PID Setpoint Value	0	3000	0	0	
47	CONF State	0	999	0	0	
48	Present Alarm	0	999	0	0	
49	Present Fault	0	999	0	0	
50	Last Fault	0	999	0	0	
51	Current At Last Fault	0	200	0	0	A
52	DC Link At Last Fault	0	2000	0	0	V
53	Speed At Last Fault	0	500	0	0	Hz

Status Monitoring

Monitor Status

Status: Run

Forward

Local

General Enabled

Motor Running

Jog

Configuration Mode (P0047 = 0)

Alarm

Fault

127 ms

Operation with HMI

Online parameter editing.

Monitor Using Keypad

Parameter: 2 Motor Speed

30

Commands:

JOG

LOC

REM

I

O

General Enable

General Disable

Reset

7 ms

New User Setting

P0100

Acceleration Time

0.1...999

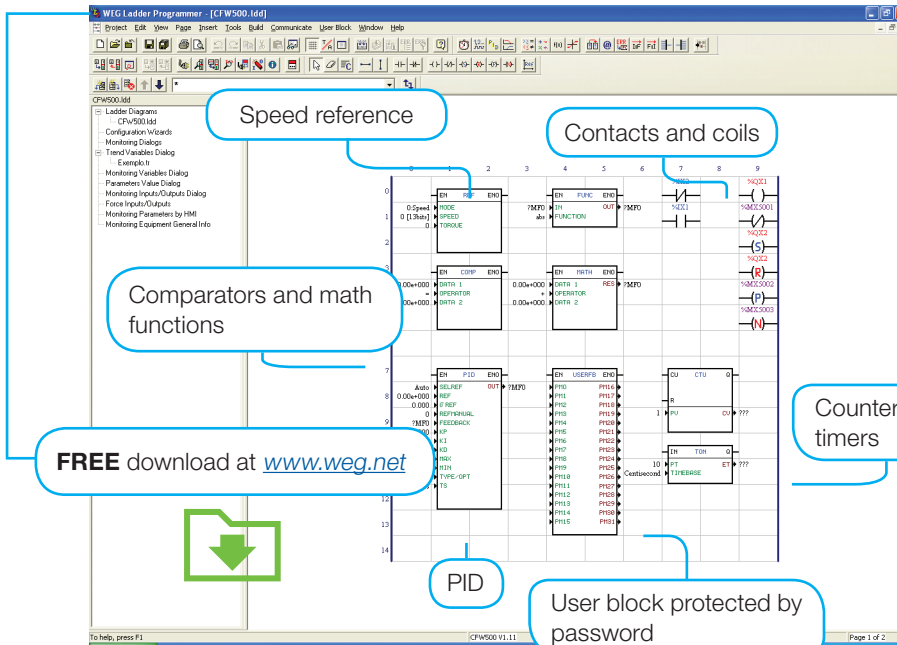
10.0

Send

- Upload/download parameters from the PC to the MW500 and vice versa
- Offline editing of the parameters stored on the PC

SoftPLC - Built-In in the Standard Product

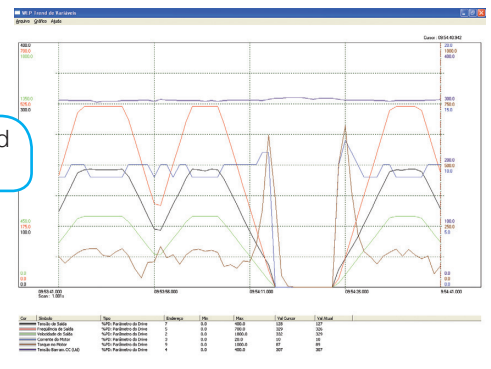
Functionalities of a PLC available as standard, allowing the creation of applications. The WLP software and the SoftPLC functionality are a smart and simple way to make your MW500, motor and application work together. Plug-in module required to connect with a computer.



Easy programming: Ladder

Trace Function

- Online graphic monitoring of parameters/variables
- Configurable up to six channels



Online Monitoring Parameters/Variables List

WLP Variables Monitoring				
Symbol	Type	Address	Value	
Motor Current	%PD: Drive Parameter	3	9	Insert
Motor Frequency	%PD: Drive Parameter	5	511	Edit
Motor Voltage	%PD: Drive Parameter	7	188	Write
DC Link Voltage (Ud)	%PD: Drive Parameter	4	301	Delete
Analog Input AI1	%IW: Analog Input	1	32193	Up
Digital Input DI1	%IX: Digital Input	1	0	Down
Signed				

Parameter Edition

For changing the parameters values.

Parameter Values

Parameter	Value
P0000	0
P0001	516
P0002	0
P0003	0
P0004	305
P0005	0
P0006	0
P0007	0
P0008	0
P0009	0

Upload...
Download...
Open...
Save...
Close
Edit...
Delete

HMI

Parametro
3 Motor Current

Actual Value :
Range: 0.0 ... 200.0 A

Enable/Disable I/Os

It simplifies and speeds up the validation of the application.

Force Inputs/Outputs

Digital Inputs [%IX]

Enable	Value
1	
2	
3	
4	
5	
6	
7	
8	

Digital Outputs [%QX]

Enable	Value
1	
2	
3	
4	
5	

Analog Inputs [%IW]

Enable	Value
%IW1	32193 32193
%IW2	0 0
%IW3	32769 32769

Analog Outputs [%QW]

Enable	Value
%QW1	0 0
%QW2	458 491

Frequency Input

FI	Value
1	0 0

Frequency Output

FO	Value
1	0 0

Apply
Close

I/Os Monitoring

WLP I/O Monitoring

Inputs

DI1	DI2	DI3	DI4	DI5	DI6	DI7	DI8

Outputs

DO1	DO2	DO3	DO4	DO5

Coding

The MW500 code identifies its construction characteristics, nominal current, voltage range and optionals. Using the smart code, it is possible to select the MW500 required for your application simple and quickly.

Product and series	Model identification				Braking ¹⁾	Degree of protection ¹⁾	Conducted emission level ¹⁾	Disconnect switch	Terminal box adaptor	Hardware version	Software version
	Frame size	Rated current	N° of phases	Rated voltage							
MW500	A	02P6	T	4	DB	66	C2	DS	A56	H00	---
MW500	Check table below										
	NB = without dynamic braking DB = with dynamic braking										
	66 = IP66/NEMA 4X										
	Blank = with no RFI filter C2 = according to category 2 of IEC 61800-3 standard, with internal RFI filter C3 = according to category 3 of IEC 61800-3 standard, with internal RFI filter										
	Blank = without disconnect switch DS = with disconnect switch										
	A56 = 56 mm motor terminal box adaptor A70 = 70 mm motor terminal box adaptor										
	Blank = standard H00 = without plug-in module										
	Blank = standard Sx = special software										

Frame sizes	Output current	Input	Power supply voltage	Braking	Degree of protection	Conducted emission level ²⁾
A	04P3 = 4.3 A	S = single phase power supply	2 = 200... 240 V	DB	66	Blank or C2
	06P0 = 6.0 A					
A	02P6 = 2.6 A	T = three-phase power supply	4 = 380... 480 V			
	04P3 = 4.3 A					
B	06P5 = 6.5 A					
	10P0 = 10 A					

Notes: 1) To know which models have these options in the standard product the above table should be checked.

2) RFI filter.

Categories:

- Category C1: inverters with voltages below 1,000 V, for use in the First Environment.

- Category C2: inverters with voltages below 1,000 V, with plugs or mobile installation, when used in the "First Environment", must be installed and started-up by a qualified professional.

- Category C3: inverters with voltages below 1,000 V, developed for use in the Second Environment and not designed for use in the "First Environment".

Environments:

- First Environment: environments that include household installations, such as buildings directly connected, without intermediate transformer, to a low-voltage power supply grid, which supplies buildings used for domestic purposes.

- Second Environment: includes all the buildings other than those directly connected to a low-voltage power supply grid, which supplies buildings used for domestic purposes.

For the RFI filters of external installations, refer to the MW500 user manual.



Drive Ratings

The correct way to select a VSD is matching its output current with the motor rated current. The tables below present the expected motor power for each VSD model. Use the motor power ratings below only as a guidance. Motor rated currents may vary with speed and manufacturer. IEC motor powers are based on WEG 4-pole motors; NEMA motor powers are based on NEC table 430-150.

Ratings and Models

Power supply In (V)		Model	Frame size	Output current (A)	Maximum motor power ¹⁾			
					IEC (kW)		NEMA (HP)	
Single-phase	200-240	MW500 A 04P3 S2 DB 66	A ²⁾	4.3	50 Hz - 230 V	0.75	60 Hz - 230 V	1
		MW500 A 06P0 S2 DB 66	A ²⁾	6.0		1.1		1.5
Three-phase	380-480	MW500 A 02P6 T4 DB 66	A ²⁾	2.6	50 Hz - 415 V	1.1	60 Hz - 460 V	1.5
		MW500 A 04P3 T4 DB 66	A ²⁾	4.3		1.5		2
Three-phase	380-480	MW500 B 06P0 T4 DB 66	B	6.5		2.2		3
		MW500 B 10P0 T4 DB 66	B	10		4		5

Notes: 1) Use motor power ratings below only as a guidance. Motors are rated for 400 V, 50 Hz, 4-pole. The right way to size a VSD is matching its output current with the rated motor current.

2) Coming soon.

Dimensions and Weights

IP66/NEMA 4X

Frame size	H mm (in)	W mm (in)	D (without disconnect switch) mm (in)	D (with disconnect switch) mm (in)	Weight Kg (lb)
A ¹⁾	240 (9.45)	165 (6.50)	125 (4.92)	172 (6.77)	3,7 (9.14)
B	269 (10.61)	269 (10.61)	141 (5.55)	188 (7.39)	5,3 (11.68)

Note: 1) Coming soon.



Mechanical Sizing Table for Motor Mounting

IEC

Frame	56 mm				70 mm		110 mm	
	71	80	90	100	112	132	160	180
A ¹⁾	✓	✓	✓	✓	✓			
B			✓	✓	✓	✓		

Note: 1) Coming soon.

NEMA

Frame	56 mm	70 mm		110 mm	
	143T/145T	182T/184T	213T/215T	254T/256T	284T/286T
A ¹⁾	✓	✓	✓		
B	✓	✓	✓		

Notes: 1) Coming soon.

Motor frame size for W22 and W21 series: Standard Efficiency (IE1), High Efficiency (IE2), Premium Efficiency (IE3), Multimounting (standards and compact versions).



Accessories and Optionals

The MW500 VSD was developed to meet the hardware configurations required by a wide range of applications. The table below presents the available options:

Option	Type ¹⁾	Description	Optional item code ²⁾	Accessory model	Available
RFI filter	Optional	Used to reduce the disturbance conducted from the CFW500 to the power supply, in the high frequency band (>150 kHz), according to standards 61800-3 and EN 55011	C2 or C3	-	Factory installation only
Braking IGBT	Optional	Used in high-inertia applications for the fast stop of the motor by means of an external braking resistance. Resistance not included. For the calculation of the braking resistance, refer to the MW500 user manual	DB	-	Factory installation only
Disconnect switch	Optional	A disconnect switch built-in the product for easy and safe maintenance. This optional makes the VSD IP65	DS	-	Factory installation only
Wall mounting kit	Accessory	An adaptation plate for assemble the drive on the wall. For more information please check the user manual	-	MW500 - KCFB	User installation
Motor mounting kit	Accessory	An adaptation box for assemble the drive on the motor. For more information please check the user manual	-	MW500 - KAIM - A55 MW500 - KAIM - B56 MW500 - KAIM - B70	User installation
I/O expansion modules (plug-in) ³⁾	Accessory	Used to configure the I/O points according to the needs of the application/machine	-	CFW500-IOS CFW500-IOD CFW500-IOAD CFW500-IOR	-
Communication module (plug-in) ³⁾	Accessory	Used for the communication of the MW500 with the main networks of the market (fieldbus)	-	CFW500-CUSB (USB) CFW500-CCAN (CANopen /DeviceNet) CFW500-CRS232 CFW500-CRS485 CFW500-CPDP (Profibus-DP)	-
Flash memory module (plug-in) ³⁾	Accessory	Used to download the programming of a MW500 to others without having to power them up	-	CFW500-MMF	-
Remote HMI	Accessory	Used to transfer the operation to the panel door or machine console. Maximum distance of 10 m. Degree of protection IP54	-	CFW500-HMIR	-
Cables for remote HMI	Accessory	Special cable desing using M8-DB9 connector with 0.5 m, or using the same cables of CFW the MW500 to the remote HMI (CFW500-HMIR)	-	MW500-CCHMIR0.5M CFW500-CCHMIRXM, where cables with lengths (X) of 1, 2, 3, 5, 7.5 and 10 meters	-

Plug-In Modules Specification³⁾

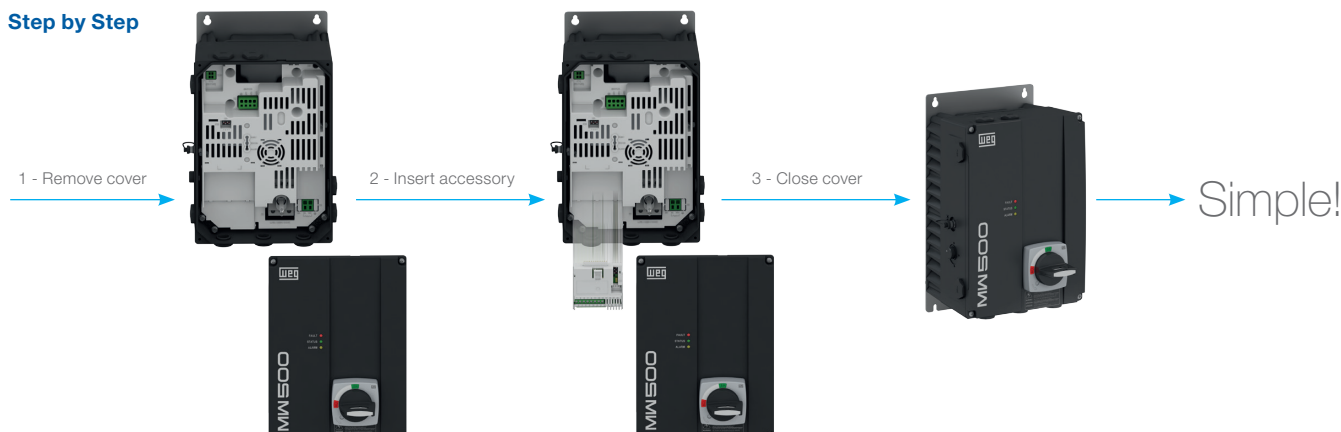
Plug-in module	Functions											
	Inputs		Outputs			Fieldbus networks						
	Digital	Analog	Analog	Digital relay	Digital transistor	USB port	CANopen/DeviceNet	RS232	RS485	Profibus-DP	10 V	24 V
IOS	4	1	1	1	1	-	-	-	1	-	1	1
IOD	8	1	1	1	4	-	-	-	1	-	1	1
IOAD	6	3	2	1	3	-	-	-	1	-	1	1
IOR	5	1	1	4	1	-	-	-	1	-	1	1
CUSB	4	1	1	1	1	1	-	-	1	-	1	1
CCAN	2	1	1	1	1	-	1	-	1	-	1	1
CRS232	2	1	1	1	1	-	-	1	1	-	-	1
CRS485	4	2	1	2	1	-	-	-	2	-	1	1
CPDP	2	1	1	1	1	-	-	-	1	1	-	1

Notes: 1) Optional: hardware resources added to the MW500 in the manufacturing process accessory = hardware resource requested as a separated item.

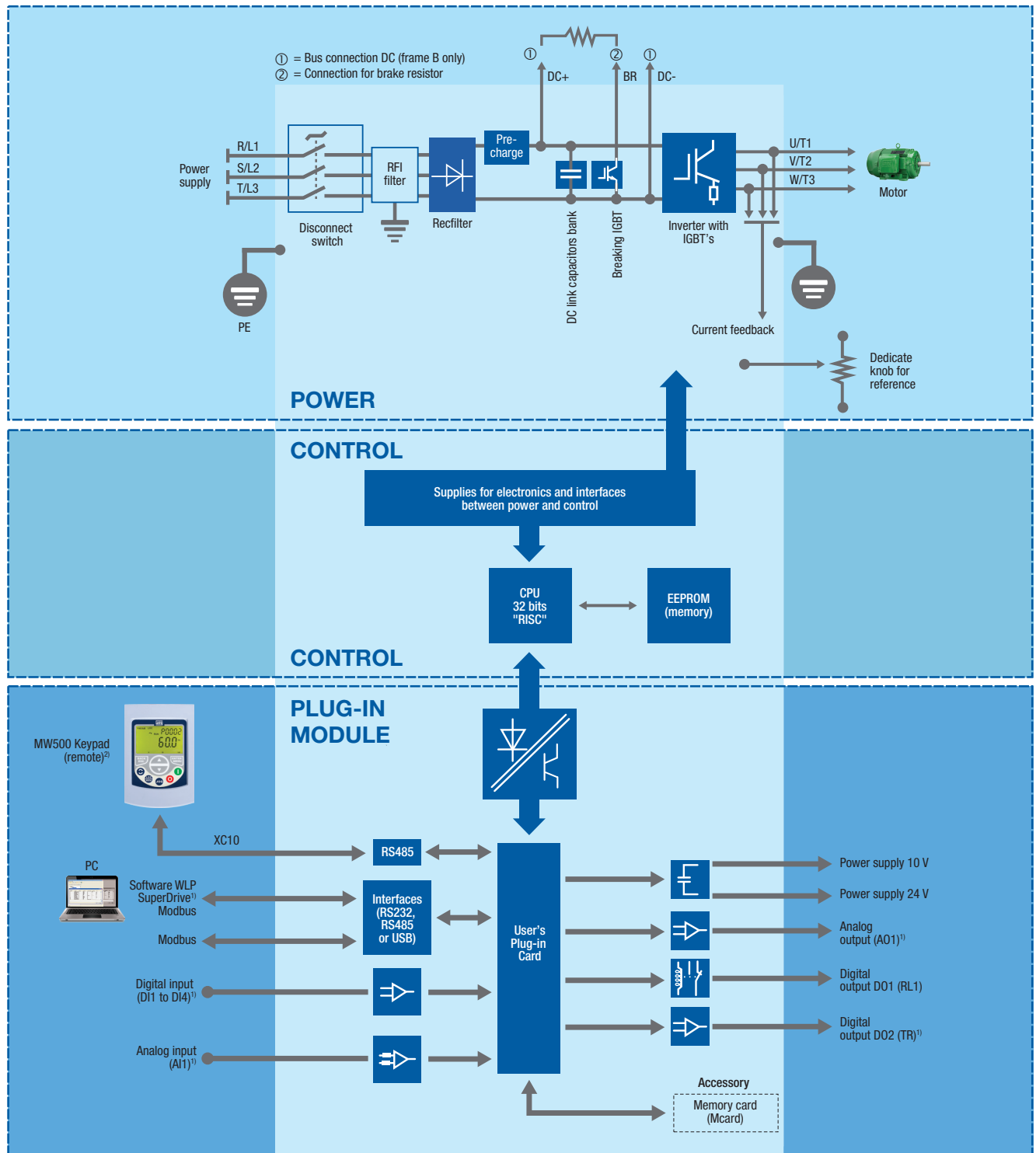
2) Request the product according to the code available on page 10.

3) All models of plug-in modules have at least one RS485 port. The CRS485 plug-in module has two RS485 ports. The MW500 allows installing one plug-in module per unit.

Step by Step



Block Diagram



Notes: 1) The number of analog/digital inputs/outputs, as well as other resources, may vary according to the plug-in module used.

Table 7.1 provides a list of the available plug-ins. For further information, refer to the guide supplied with the accessory or the CD-ROM.

2) Not provided with the product.

Technical Data

Power supply	Voltage and power range	1-phase, 200-240 V ac (+10%-15%) 0.75 and 1.1 kW (1 and 1.5 HP)
		1-phase/3-phase, 200-240 V ac (+10%-15%) 0.25 to 3 HP (0.25 to 2.2 kW)
		3-phase, 200-240 V ac (+10%-15%) 2 to 7.5 HP (1.5 to 5.5 kW)
		3-phase, 380-480 V ac (+10%-15%) 1.1 to 4 kW (1.5 to 5 HP)
	Supply frequency	50/60 Hz (48 Hz to 62 Hz)
Motor connection	Voltage	3-phase, 0-100% of supplied voltage
	Output frequency	0 a 500 Hz
	Displacement power factor	>0.97
	Overload capacity	1.5 x I _n (drive) for 1 minute every 6 minutes
	Switching frequency	Default 5 kHz (selectable 2.5 to 15 kHz)
	Acceleration time	0.1 to 999s
	Deceleration time	0.1 to 999s
Environment	Temperature	40 °C - for wall mounting installation
		50 °C - for motor mounting installation using self-ventilation
		2% of current derating for each °C above the specific operating temperature, limited to an increase of 10 °C
	Humidity	5% to 95% non-condensing
	Altitude	Up to 1,000 m - rated conditions
		1,000 m to 4,000 m - 1% of current derating for each 100 m above 1,000 m of altitude
	Protection degree	IP66/NEMA 4X (the disconnect switch is IP65)
Performance	V/f control	Speed regulation: 1% of the rated speed (with slip compensation)
		Speed variation range: 1:20
	Vector control (VFW)	Speed regulation: 1% of the rated speed
		Speed variation range: 1:30
Braking methods	DC current applied to motor dynamic braking	Available as standard for frame size B. For frame size A "DB" models has to be used. An extra resistor must be fitted in for dynamic braking capability
Safety	Protection	Overcurrent/phase-phase short circuit in the output
		Overcurrent/phase-ground short circuit in the output
		Under/overvoltage
		Overtemperature in the heatsink
		Overload in the motor
		Overload in the power module (IGBTs)
		External alarm / fault
		Setting error



Technical Data - Standards

Communication	Modbus-RTU	All plug-in modules for RS485 and CFW500-CRS232 for RS232
	Profibus-DP	Plug-in module CFW500-CPDP
	DeviceNet	Plug-in module CFW500-CCAN
	CANopen	Plug-in module CFW500-CCAN
Chokes (external as accessory)	AC input chokes	For reducing THD
	AC output chokes	For longer motor cables
Safety 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.
	EN 60204-1	Safety of machinery. Electrical equipment of machines. Part 1: General requirements. <i>Note: For the machine to comply with this standard, the manufacturer of the machine is responsible for installing an emergency stop device and equipment to disconnect the input power supply.</i>
	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.
Electromagnetic Compatibility (EMC) Standards	EN 61800-3	Adjustable speed electrical power drive systems - Part 3: EMC product standard including specific test methods.
	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.
	EN 61000-4-2	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 2: Electrostatic discharge immunity test.
	EN 61000-4-3	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 3: Radiated, radio-frequency, electromagnetic field immunity test.
	EN 61000-4-4	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 4: Electrical fast transient/burst immunity test.
	EN 61000-4-5	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 5: Surge immunity test.
	EN 61000-4-6	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 6: Immunity to conducted disturbances, induced by radio-frequency fields.
Mechanical construction standards	EN 60529	Degrees of protection provided by enclosures (IP code).
	UL 50	Enclosures for electrical equipment.

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