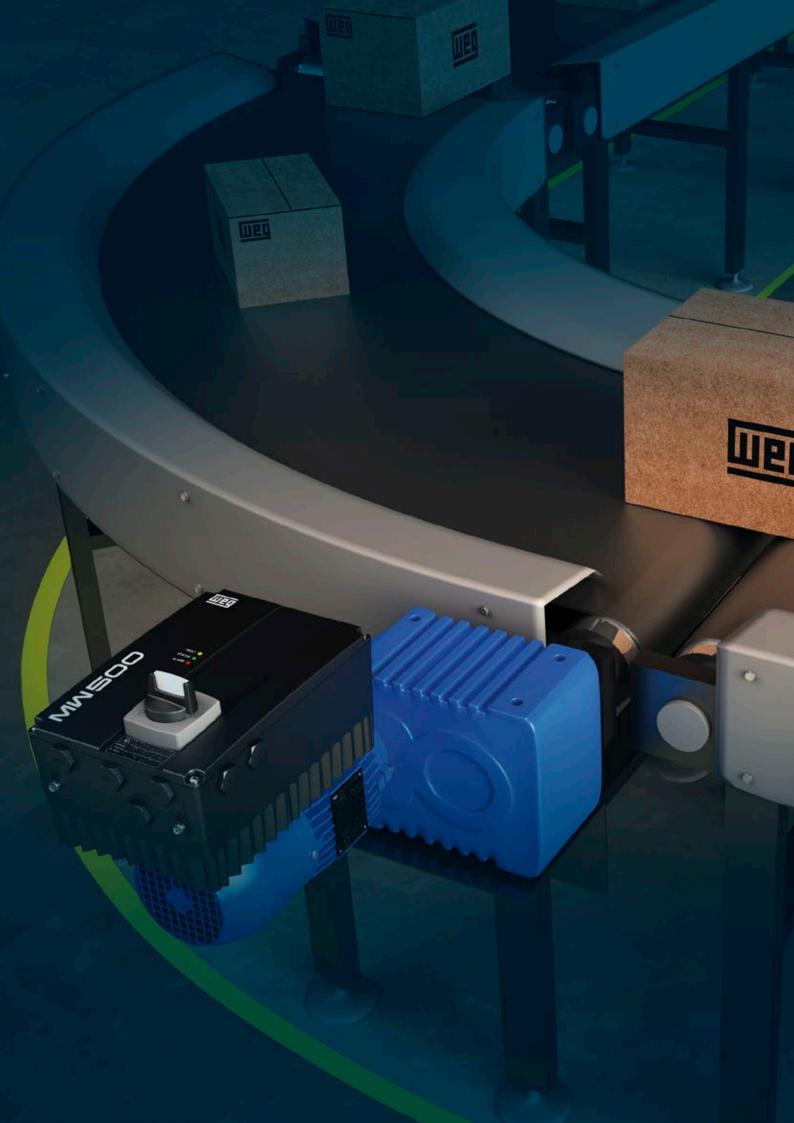
MW500

Decentralized VSD - MotorDrive





MW500 - Decentralized VSD - MotorDrive

Summary

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MV500

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.



Decentralized

Indoor or outdoor applications



Flexible

Wide range of accessories and functions



Robust

IP66/NEMA 4X outdoor enclosure



Efficient

High performance for machines and processes



Reliable

Same trustworthiness of WEG products



Integrated

Communication networks

Characteristics

Motor or wall assembly

Plug-in modules

Easiness to setup

SoftPLC

Increasing the ruggedness and durability

Functions to streamline operation and performance

WEG quality

Connectivity



Advantages

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.

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

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

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.

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

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

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

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

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

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

Thermal protection of IGBTs based on manufacturer curve.

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

CANopen, DeviceNet, Profibus-DP, Modbus-RTU, EtherNet-IP, Modbus-TCP, PROFINET-IO and possibility of Bluetooth communication.

Benefits

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

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

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

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

Panel not required, reducing the installation costs.

Energy saving.

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

It prevents machine stoppage and downtime.

High reliability.

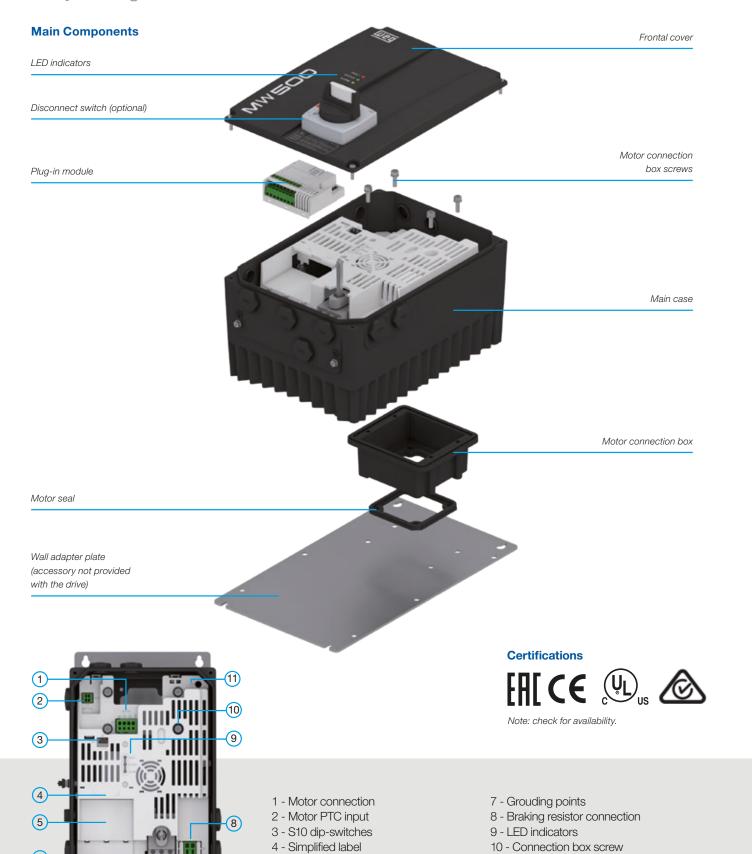
It prevents damage to the inverter which can be caused by adverse situations, normally external factors.

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

Full integration with process network.



Easy Configuration



5 - Plug-in slot

6 - Power supply connection

11 - Grounding connection screw



Applications



















Special Features



Conector IP66/NEMA 4X Special conector for Remote HMI (M8) or external sensor



Analog Potentiometer Built-In No need HMI to operate



Fins Instead of Fans Reducing maintenance cost and audible noise



LED Indicators Programmable status indication







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 redution in the EMC level, some cases even more, taking advantage of the motor and VSD distance, thus increasing the EMC class.

The black color increases the enclosure

dissipation capability, helping the drive



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.



support up to 50 °C on motor mounting without derating.

SuperDrive G2 and WPS

Black Color

Free softwares with possibility to comunicate via Bluetooth with PCs or Smartphones (Android and IOS), allowing the parameter setting, command and monitoring of VSD, in this last option, simulating an oscilloscope with Trend function.



SoftPLC

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







Space saving and flexible solution



Reduced installation



Increased ruggedness



Easy commissioning



Cost savings on cables



Panel not required



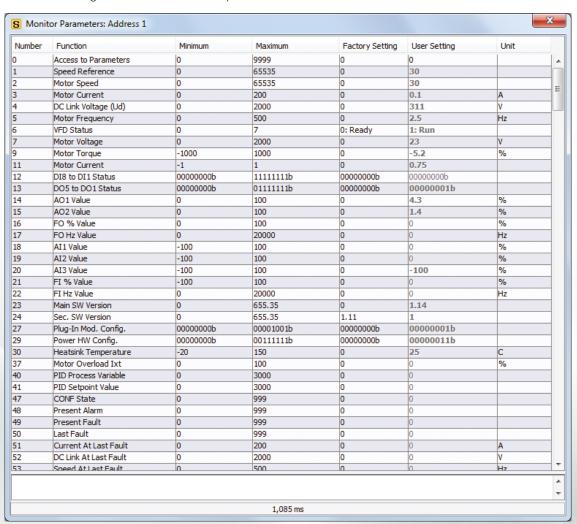


SuperDrive G2

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

Changing and Monitoring Parameters in a List/Table

Parameter settings can be stored in a computer file format.



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

Status Monitoring



Operation with HMI

Online parameter editing.

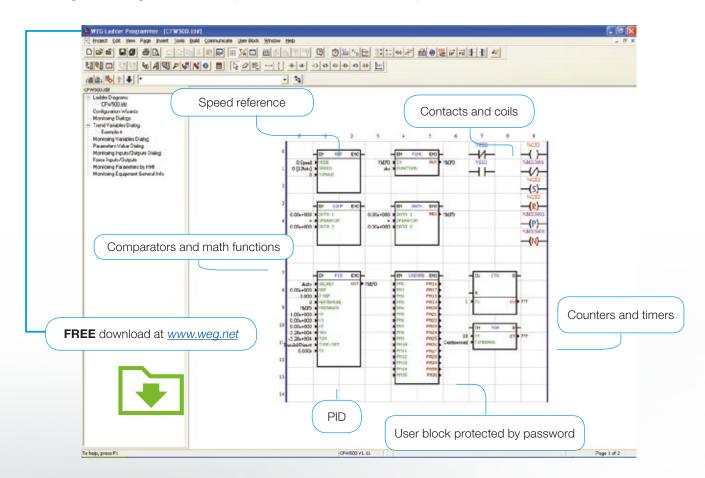


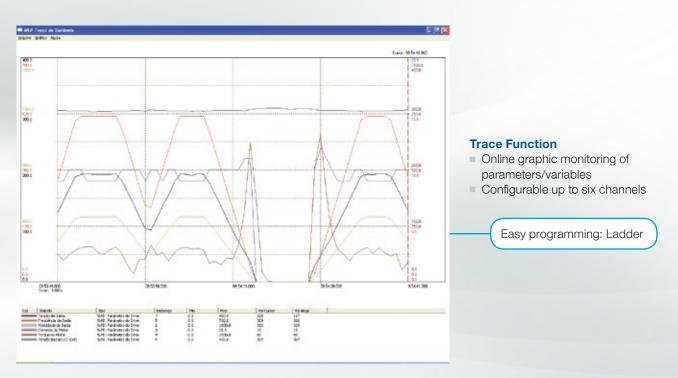




SoftPLC - Built-In in the Standard Product

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.







SoftPLC - Built-In in the Standard Product



Trend Function

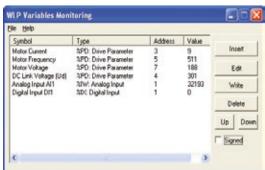
- Online graphic monitoring of parameters/variables
- Possibility to export an image with the respective graph based upon the selected period

Friendly environment





Online Monitoring Parameters/Variables List



I/Os Monitoring





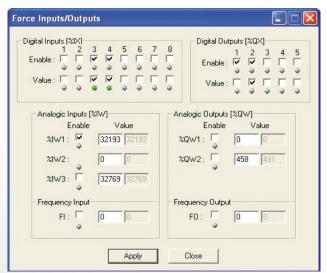
Parameter Edition

For changing the parameters values.



Enable/Disable I/Os

It simplifies and speeds up the validation of the application.





FREE download at www.weg.net



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.

Draduat and		Model ide	ntification		Drokina	Dogwoo of	Conducted	Disconnect	Connection	Hardware	Software
Product and series	Frame size	Rated current	N° of phases	Rated voltage	Braking IGBT	Degree of protection	emission level ¹⁾	Disconnect switch	Connection box ²⁾	version	version
MW500	Α	02P6	T	4	DB	66	C2	DS	A56	H00	
MW500	Blank = without DS = with disco A56 = motor co A70 = motor co	RFI filter to category 2 of I disconnect switch nnection box size connection box size connection box size	56x56 mm; appl 70x70 mm; appl	dard, with interna iles to frames A ai iles to frames A ai iled 110x110 mm; i	nd B nd B	e size C					

Frame sizes	Output current	Input	Power supply voltage
۸	04P3 = 4.3 A	S = single phase	2 = 200 240 V
A	06P0 = 6.0 A	power supply	Z = 200 240 V
۸	02P6 = 2.6 A		
A	04P3 = 4.3 A		
В	06P5 = 6.5 A	T = three-phase	4 = 380 480 V
В	10P0 = 10 A	power supply	4 = 300 400 V
С	14P0 = 14 A		
C	16P0 = 16 A		

Notes: 1) RFI filter.

- 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".
- First Environment: environments that include household installations, such as buildings directly connected, without intermediate transformer, to a lowvoltage 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.

2) For frame size C, connections to box with 70 and 110 mm are possible, therefore no dedicated order option code for 70 or 110 mm is needed.



Drive Ratings

Ratings and Models

MW500 variable	ıtions	Maximum applicable motor ¹⁾									
Reference ²⁾	Power sup	ply (V)	Frame size	IGBT	Rated output current (A)	Power supply (V) 50 Hz	kW	Power supply (V) 60 Hz	НР	Power supply (V) 60 Hz	HP
			MW500) without	disconnecting s	witch and witho	ut RFI filter				
MW500A04P3S2DB66XXXH00	Single-phase	200-240	Α	Built-in	4.3	230	1.1	220	1.5	230	1.0
MW500A06P0S2DB66XXXH00	onigie-priase	200-240	^	Duiit-iii	6.0	230	1.5	220	2.0	230	1.5
MW500A02P6T4DB66XXXH00			Α	Built-in	2.6		1.1		1.5		1.5
MW500A04P3T4DB66XXXH00			_ ^	Duiit-iii	4.3		1.5		3.0		2.0
MW500B06P5T4DB66XXXH00	Three-phase	380-480	В	Built-in	6.5	415	3.0	460	4.0	460	3.0
MW500B10P0T4DB66XXXH00	Tillee-pilase	300-400		Duiit-iii	10	413	4.0		7.5	400	5.0
MW500C14P0T4DB66H00			С	Built-in	14		7.5		10		7.5
MW500C16P0T4DB66H00			_		16		7.5		10		10
			MW5	00 withou	t disconnecting	switch and with	RFI filter				
MW500A04P3S2DB66C2XXXH00	Single-phase	200-240	Α	Built-in	4.3	230	1.1	220	1.5	230	1.0
MW500A06P0S2DB66C2XXXH00	Origio pridoc	200 240	^	Duit iii	6.0	200	1.5	220	2.0	200	1.5
MW500A02P6T4DB66C2XXXH00			Α	Built-in	2.6		1.1		1.5		1.5
MW500A04P3T4DB66C2XXXH00		380-480		Duit iii	4.3		1.5		3.0		2.0
MW500B06P5T4DB66C2XXXH00	Three-phase		В	Built-in	6.5	415	3.0	460	4.0	460	3.0
MW500B10P0T4DB66C2XXXH00	Thice phase	000 400		Duit iii	10	410	4.0		7.5		5.0
MW500C14P0T4DB66C2H00			С	Built-in	14	_	7.5		10		7.5
MW500C16P0T4DB66C2H00					16		7.5		10		10
			MW5	00 with d	sconnecting sv	vitch and withou	t RFI filter				
MW500A04P3S2DB66DSXXXH00	Single-phase	200-240	Δ	Ruilt-in	4.3	230	1.1	220	1.5	230	1.0
MW500A06P0S2DB66DSXXXH00	Origio pridoc	200-240	Α	Built-in	6.0	200	1.5	220	2.0	230	1.5
MW500A02P6T4DB66DSXXXH00			Α	Built-in	2.6		1.1		1.5		1.5
MW500A04P3T4DB66DSXXXH00				Dune in	4.3		1.5		3.0		2.0
MW500B06P5T4DB66DSXXXH00	Three-phase	380-480	В	Built-in	6.5	415	3.0	460	4.0	460	3.0
MW500B10P0T4DB66DSXXXH00	Till Co pridoo	000 100		Dune in	10	110	4.0	100	7.5	100	5.0
MW500C14P0T4DB66DSH00			С	Built-in	14		7.5		10		7.5
MW500C16P0T4DB66DSH00					16		7.5		10		10
			MW	500 with		witch and with I					
MW500A04P3S2DB66C2DSXXXH00	Single-phase	200-240	Α	Built-in	4.3	230	1.1	220	1.5	230	1.0
MW500A06P0S2DB66C2DSXXXH00	Origio pridoo	200 210	, ,	Duit iii	6.0	200	1.5	220	2.0	200	1.5
MW500A02P6T4DB66C2DSXXXH00			Α	Built-in	2.6		1.1		1.5		1.5
MW500A04P3T4DB66C2DSXXXH00			-,	June III	4.3		1.5		3.0		2.0
MW500B06P5T4DB66C2DSXXXH00	Three-phase	380-480	В	Built-in	6.5	415	3.0	460	4.0	460	3.0
MW500B10P0T4DB66C2DSXXXH00	Throo phase	000 400		Dunt III	10	710	4.0	400	7.5	700	5.0
MW500C14P0T4DB66C2DSH00			С	Built-in	14		7.5		10		7.5
MW500C16P0T4DB66C2DSH00			U	Dunt III	16		7.5		10		10

Notes: 1) The power values for maximum applicable motor shown in the table above are reference values and valid for WEG motors. IEC motor powers are based on WEG motor four-pole W22 High Efficiency IE2, three-phase induction motors with power supply of 220 V, 230 V, 415 V or 460 V. UL motor power are based on WEG motor four-pole W22 Premium.

The proper sizing must be always determined according to the rated current of the motor, which must be lower than or equal to the inverter rated output current. For further information, please refer to the User's Manual.

Dimension and Weight¹⁾

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)
Α	240 (9.45)	161.5 (6.36)	125 (4.92)	171.8 (6.76)	3.7 (8.16)
В	269 (10.61)	189 (7.46)	141 (5.55)	188 (7.39)	5.3 (11.68)
С	304.5 (12.0)	219.5 (8.6)	171.6 (6.8)	218.4 (8.6)	8.9 (19.62)

Note: 1) VSD without wall monting support.

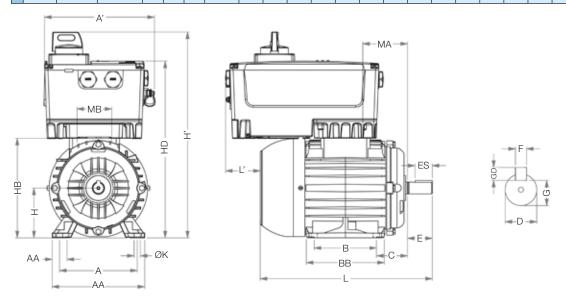


²⁾ The reference "XXX" in the smart code must be filled with A56 or A70, matching the MW500 connection box with the motor terminal box. For further details, check the tables "Motor and Drive Mechanical Combination" to select the code accordingly to the specified motor.

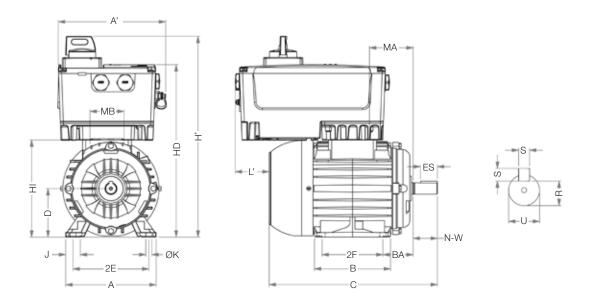


Motor and Drive Mechanical Mounting Combination

	M	lotor	MW500											Dimensi	ons IEC										
	Motor frame size	Motor terminal box mounting points / mounting points of the MW500 (mm)	Converter frame size	Α	AA	АВ	В	BB	С	D	E	ES	F	G	GD	Н	НВ	L	MA	МВ	ØK	A'	H'	HD	Ľ
	80		Α	125	30.5	149		125.5	50	19j6	40	28	6	15.5	6	80	43.5	276	72				331	284	55
	L80		A							,								325				177.6			6
	908		A				100											304					351	304	43
			В					131											78			206	368	321	72
	L90S		A B															335			10	177.6 206	351 368	304 321	12 41
		50.50	A	140	36.5	164			56	24j6	50	36		20		90	45					177.6	351	304	30
	90L	56x56 M5x0.8	В															329		56		206	368	321	59
			B				125	156											90.5			177.6	351	304	-1
	L90L		В															360				206	368	321	28
			A																			177.6	371	324	9
	100L		В										8		7			376				206	388	341	38
			A	160	40	188	188	173	63							100	61.5					177.6	371	324	-35
(mm)	L100L		В															420				206	388	341	-6
IEC (n			А							28j6	60	45		24				393	105			177.6	395	348	-2
_	112M		В									40		24					105			206	411	364	27
			С	190	40.5	220	140	177	70							112	54.5					240.9	442	396	35
			А	130	40.5	220	140	'''	70							112	34.3					177.6	395	348	-32
	L112M		В															423				206	411	364	-3
			С																			240.9	442	396	5
	132S		В															452			12	206	460	413	-3
			С					187											124.1	70		240.9	490	444	18
	L132S	70x70 M6x1.0	В															477				206	460	413	-28
		IVIOX 1.U	С																			240.9	490	444	-7
	132M		B C															490				206	460 490	413 444	-18 -3
			В	216	45	248	178	225	89	38k6	80	63	10	33		132	75		143.1			206	460	413	-3 -43
	L132M		C												8							240.9	490	444	-28
			В															515				206	460	413	-30.6
	132M/L		C																			240.9	490	444	-15.6
	L132M/L		В				178/203	250											155.5			206	460	413	-54.6
			С															539				240.9	490	444	-39.6
	160M	110x110	С				210	254										598	157.8	110		240.9	543	496	-47
	160L	M8x1.25	С	254	64	308	254	298	108	42k6	110	80	12	37		160	79	642	178.5		14.5	240.9	543	496	-91



	-	Motor	MW500		Dimensions NEMA																				
	Motor frame size	Motor terminal box	Converter frame size	2E	J	А	2F	В	BA	U	N-W	ES	S	R	S	D	НІ	С	MA	МВ	ØН	A'	H'	HD	Ľ
	143T		Α															12.346				6.99	13.77	11.93	1.69
	1431		В				4 000	5.157										12.540	2 1 / 12			8.1	14.43	12.62	2.83
	L143T		Α				4.000	3.137										13.566				6.99	13.77	11.93	0.47
	L1431	56x56 M5	В	5.500	1.437	6.457			2.250	0.875	2.250	1.575	0.187	0.765	0.187	3.500	7.043			2.205	0.344	8.1	14.43	12.62	1.61
	145T	JOXJO WIJ	Α	3.300	1.457	0.437			2.230	0.073	2.230	1.575	0.107	0.703	0.107	3.500	7.043	13.346		2.203	0.544	6.99	13.77	11.93	1.69
	1431		В				5,000	6.142											3.640			8.1	14.43	12.62	2.2
	L145T		Α				3.000	0.142										14.566	3.040			6.99	13.77	11.93	0.47
	L1451		В															14.500				8.1	14.43	12.62	0.98
	182T		Α															14.860				6.99	15.7	13.86	0.445
	1021		В				4 500	5.945									8.883		3.608			8.1	16.34	14.5	1.545
NEMA (in)	L182T		Α				4.000	0.040							0.250		0.000	16.041	0.000			6.99	15.7	13.86	-0.736
NEM		56x56 M6	В	7.500	1.594	8.661			2 750	1.125	2.750	1 969	0.250	0.984		4.500		10.011				8.1	16.34	14.5	0.364
	184T		А															15.860				6.99	15.7	13.86	-0.07
			В					6.969									8.974		4.093			8.1	16.34	14.5	1.03
	L184T		Α															17.041				6.99	15.7	13.86	-1.251
			В				5.500													2.756	0.406	8.1	16.34	14.5	-0.151
	213T		В															18.021				8.1	18.15	16.31	-0.09
			С					7.362											4.884			9.50	19.27	17.42	1.53
	L213T		В															19.527				8.1	18.15	16.31	-1.596
		70x70 M6	С	8.500	1.988	9.764			3.50	1.375	3.375	2.480	0.313	1.203	0.313	5.250	10.762					9.50	19.27	17.42	0.024
	215T		В															19.517				8.1	18.15	16.31	0.65
			С				7.000	8.858											5.634			9.50	19.27	17.42	0.01
	L215T		В				7.000											20.905				8.1	18.15	16.31	-0.738
			С																			9.50	19.27	17.42	-1.378
	254T		С	10.000	2.539	12.126		10.000	4.250		4.000	2.456				6.250	12.746	23.213				9.50	21.25	19.41	-1.6
	256T	110x110 M8	С				10.000			1.625			0.375	1.406	0.375			24.945	7.085	4.331	0.531	9.50	21.25	19.41	-2.6
	284TS		C	11.000	3.110	13.780 9.500	11.732	4.750	50		2.480				7.000	14.087	25.061	7.335			9.50	22.6	20.7	-3.2	
	284T		С				3.780 9.500		4.750	1.875	4.622	3.149	0.500	0 1.594 0.500	0 7.000 14.0		26.433				9.50	22.6	20.7	-3.2	





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	Туре	Description	Optional item code	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	-	Factory installation only
Disconnect switch	Optional	A disconnect switch built-in the product for easy and safe maintenance	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 - KCFA MW500 - KCFB MW500 - KCFC	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 - A56 MW500 - KAIM - A70 MW500 - KAIM - B56 MW500 - KAIM - B70	User installation
I/O expansion modules (plug-in)	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)	Accessory	Used for the communication of the MW500 with the main networks of the market (fieldbus)	-	CFW500-CUSB (USB) CFW500-CCAN (CANopen /DeviceNet) CFW500-CRS485 CFW500-CPDP2 (Profibus-DP) CFW500-CEMB-TCP (Modbus-TCP) CFW500-CEPN-I0 (PROFINET-I0) CFW500-CETH-IP (EtherNet/IP)	-
Flash memory module (plug-in)	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	Communication wire for connection of IP20 keypad via XC10 connector	-	MW500-CCHMIRO.5M CFW500-CCHMIRXXM, where XX is the cable length of with lengths (X) of 1, 2, 3, 5, 7.5 and 10 meters	-

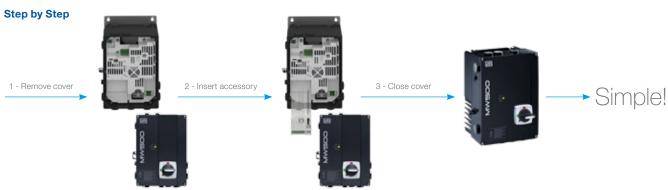
Plug-In Modules

Plug-in	Inp	uts		Outputs			Communicat	ion networks	V dc s	source
module	Digital	Analog	Analog	Relay	Transistor	USB port	Modbus-RTU RS485	Others	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	5	1	1	4	1	-	1	•	1	1
CFW500-CUSB	4	1	1	1	1	1	1	•	1	1
CFW500-CCAN	2	1	1	1	1	-	1	CANopen/DeviceNet	1	1
CFW500-CRS232	2	1	1	1	1	-	1	RS232	-	1
CFW500-CRS485 ¹⁾	4	2	1	2	1	-	2	-	1	1
CFW500-CPDP	2	1	1	1	1	-	1	Profibus-DP	-	1
CFW500-CEMB-TCP	2	1	1	1	1	-	1	Modbus-TCP	-	1
CFW500-CEPN-IO	2	1	1	1	1	-	1	PROFINET-IO	-	1
CFW500-CETH-IP	2	1	1	1	1	-	1	EtherNet/IP	-	1

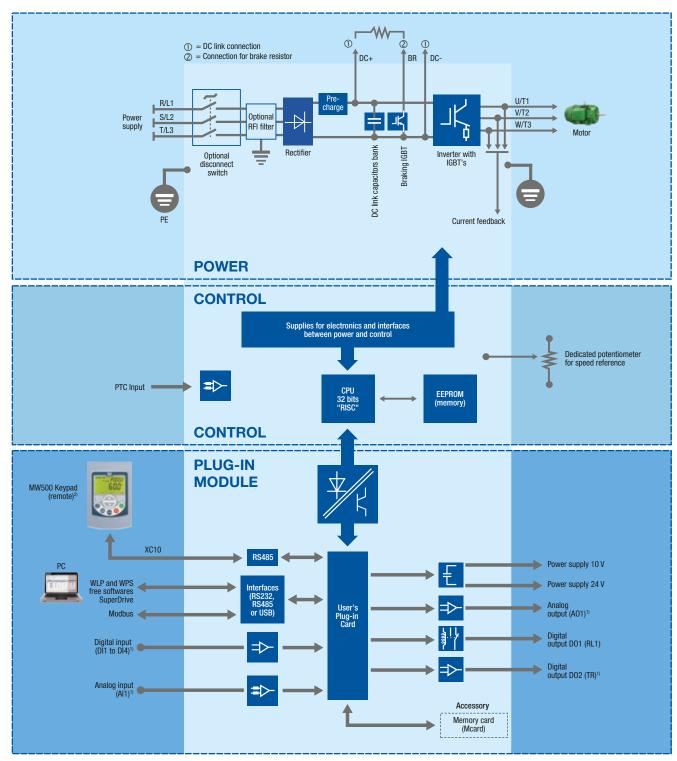
Note: 1) All plug-in models have at least one RS485 port. The CFW500-CRS485 plug-in module has two RS485 ports.

The CFW500 allows the installation of one plug-in module per unit. The plug-in modules are the same as those used on the CFW500.

For the other installation accessories of the MW500, refer to the product catalog or the user's manual.



Block Diagram



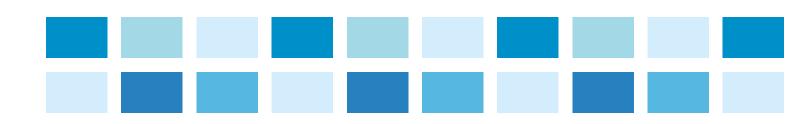
Notes: 1) The number of analog/digital inputs/outputs, as well as other resources, may vary according to the plug-in module used. For further information, refer to the specific plug-in module guide, available at www.weg.net.

2) Not provided with the product.



Technical Data

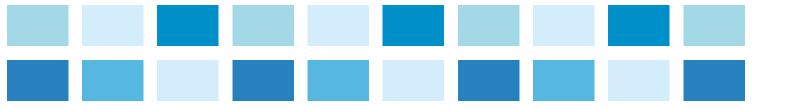
Vallage and groups	1-phase, 200-240 V ac (+10%-15%) 1.1 and 1.5 kW (1.5 and 2.0 HP)							
voltage and power range	3-phase, 380-480 V ac (+10%-15%) 1.1 to 7.5 kW (1.5 to 10 HP)							
Supply frequency	50/60 Hz (48 Hz to 62 Hz)							
Voltage	3-phase, 0-100% of supplied voltage							
Output frequency	0 to 500 Hz							
Displacement power factor	>0.97							
Overload capacity	1.5 x ln (drive) for 1 minute, every 10 minutes							
Switching frequency	Default 5 kHz (selectable 2.5 to 15 kHz)							
Aceleration time	0.1 to 999s							
Deceleration time	0.1 to 999s							
	40 °C - for wall mounting installation							
Temperature	50 °C - for motor mounting installation using self-ventilation at nominal speed							
	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							
	Up to 1,000 m - rated conditions							
Altitude	1,000 m to 4,000 m - 1% of current derating for each 100 m above 1,000 m of altitude							
	From 2,000 to 4,000 m maximum voltage reduction (380-480 V models) of 1.1 % for each 100 m above 2,000 m altitude.							
Protection degree	IP66/NEMA 4X							
W/6 a andreal	Speed regulation: 1% of the rated speed (with slip compensation)							
V/T CONTROL	Speed variation range: 1:20							
Manhau annhual (1000)	Speed regulation: 1% of the rated speed							
vector control (vvw)	Speed variation range: 1:30							
Dynamic braking	Available as standard for frame sizes A, B and C. An external resistor must be used for dynamic braking capability.							
	Overcurrent/phase-phase short circuit in the output							
	Overcurrent/phase-ground short circuit in the output							
	Under/overvoltage							
Dustantian	Overtemperature in the heatsink							
Protection	Overload in the motor							
	Overload in the power module (IGBTs)							
	External alarm / fault							
	Setting error							
Fieldbus	Profibus-DP, CANopen, DeviceNet, EtherNet/IP, Modbus-TCP, PROFINET-IO, USB, RS485, RS232 and Bluetooth							
	Voltage Output frequency Displacement power factor Overload capacity Switching frequency Aceleration time Deceleration time Humidity Altitude Protection degree V/f control Vector control (VVW) Dynamic braking Protection							





Standards

	UL 508C	Pawar agniarajan aguinmant							
		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: 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.							
	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 specifc test methods.							
	EN 55011	Limits and methods of measurement of radio disturbance characteristics of industrial, scientifc and medical (ISM) radio-frequency equipment.							
	CISPR 11	Industrial, scientifc and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement.							
Electromagnetic Compatibility (EMC)	EN 61000-4-2	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 2: Electrostatic discharge immunity test.							
Standards	EN 61000-4-3	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 3: Radiated, radio-frequency, electromagnetic feld 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	EN 60529	Degrees of protection provided by enclosures (IP code).							
atandarda	UL 50	Enclosures for electrical equipment.							





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