

MW500 - Decentralized VSD



MotorDrive

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 the wall.

Designed 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 motor, thus eliminating the necessity of long cables and panels.



Motor Mounting

The VSD Wherever you Need

Motor Power Range
0.75 to 3.7 kW (1 to 5 HP)

Remote HMI
Simple and intuitive

Advantages

- Panel not required
- Reduced installation costs
- Easy commissioning
- Cost savings on cables
- Increased ruggedness
- Space saving and flexible solution



Switch-Disconnecter Built-In (Optional)
Easy and safe maintenance

Analog Potentiometer Built-In
No necessity of a HMI to operate



Characteristics

- **Robust**
IP66 / NEMA 4X
Overload current: 150% during 60 seconds
Ambient temperature: 50 °C for Self-Ventilated Motor Mounting and 40 °C for Wall Mounting
- **Internal RFI Filter**
RFI filter complying with IEC 61800-3
Category C2 or C3 as optional
- **PID Control**
- **Conformal Coating as Standard**
Classified as 3C2 according to IEC 60721-3-3
- **SoftPLC**



Wall Mounting



MW500 - Decentralized VSD

MotorDrive

- Vector (V/W) and Scalar (V/Hz) control
- Free Windows® based software SuperDrive G2. Designed for the programming, commanding and monitoring the MW500

- Centrifugal pumps
- Compressors
- Process pumps
- Fans/exhaust fans
- Mixers/bottlers
- Washers/driers
- Conveyor belts
- General machinery

Certifications



Note: check for availability.



Ratings and Models

Power supply In (V)	Model	Frame size	Output current (A)	Braking IGBT	RFI filter	Switch-disconnector	Maximum motor power ¹⁾					
							IEC (kW)		NEMA (HP)			
Single-phase	200-240	MW500 A 04P3 S2 DB 66	A	4.3	Built-in	C2	DS	50 Hz - 230 V	0.75	60 Hz - 230 V	1	
		MW500 A 06P0 S2 DB 66	A	6.0	Built-in	C2			1.1		1.5	
Three-phase	380-480	MW500 A 02P6 T4 DB 66	A	2.6	Built-in	C2	DS	50 Hz - 415 V	1.1	60 Hz - 460 V	1.5	
		MW500 A 04P3 T4 DB 66	A	4.3	Built-in	C2			1.5		2	
Three-phase	380-480	MW500 B 06P5 T4 DB 66	B	6.5	Built-in	C2	DS		2.2			3
		MW500 B 10P0 T4 DB 66	B	10	Built-in	C2			3.7			5

Notes: 1) The motor power are only a guidance, rated for 200 or 400 V, 50 Hz, 4-pole. The correct way to size a VSD is matching its output current with the rated motor current.

Configurations of Plug-In Modules

Plug-in module	Inputs		Outputs			USB Port	Fieldbus communication		Power supply	
	Digital	Analog	Analog	Digital relay	Digital transistor		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-CRS485	4	2	1	2	1	-	2	-	1	1
CFW500-CRS232	2	1	1	1	1	-	1	RS232	-	1
CFW500-CCAN	2	1	1	1	1	-	1	CANopen / DeviceNet	1	1
CFW500-CPDP2	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: the MW500 allows installing one plug-in module per unit.

Mechanical Sizing Table for Motor Mounting

IEC

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

NEMA

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

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



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