

# MW500 – G2

## Variable Frequency Drive

Industrial Motors

Commercial &  
Appliance Motors

**Automation**

Digital &  
Systems

Energy

Transmission &  
Distribution

Coatings

**NEMA4X / IP66 Rated  
Decentralized VFD**  
**Price List**



Driving efficiency and sustainability



# MW500-G2 (The Decentralized N4X/IP66 Drive)

The MW500 is a high-performance frequency inverter used to control three-phase Induction & PM 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 cost.

The MW500 includes built-in SoftPLC capability with free WPS/WLP programming software for custom tailored control schemes without additional hardware. A variety of plug-in option modules may be added for additional I/O and communications protocols, providing extended capabilities, and making the MW500 a flexible and cost-effective solution for your variable speed requirements.



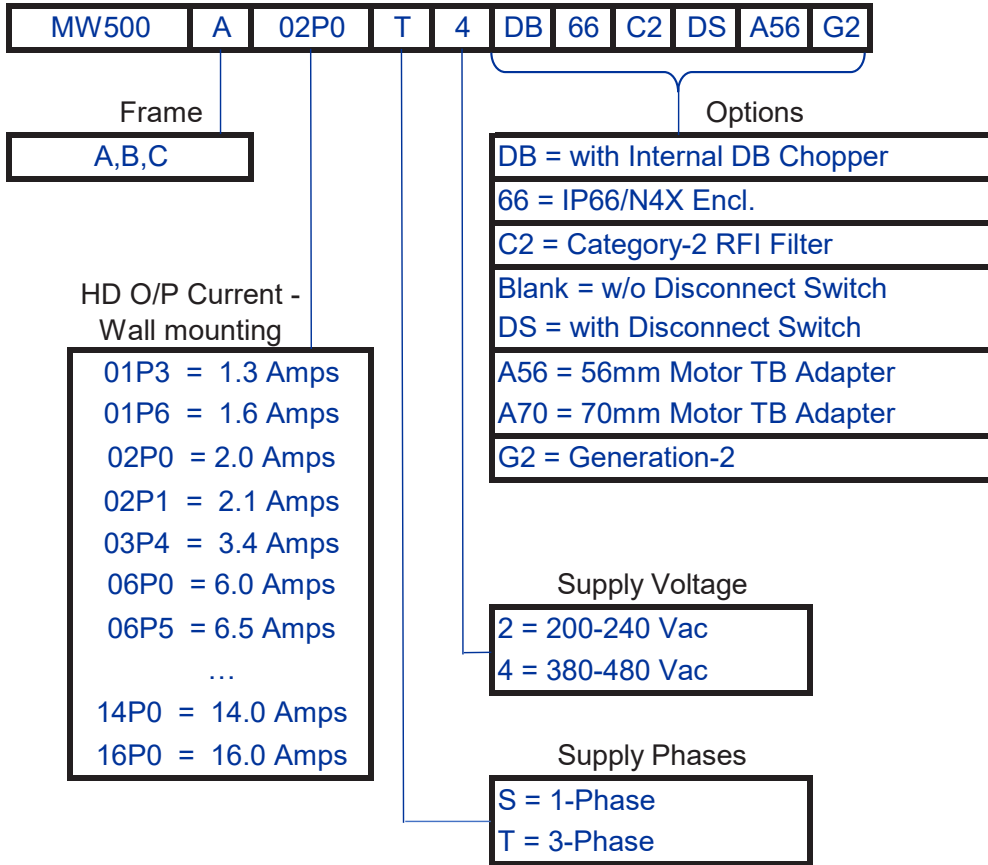
## Standard Features

- Same programming as other WEG VFDs including CFW500 drives.
- Built-in SoftPLC.
- Scalar, Vector Control (Sensorless and closed loop with encoder feedback) & VVW PM (suitable for fan, Pump and compressor).
- NEMA 4X (IP66) Enclosure with and without disconnect switch, suitable for indoor and outdoor (not in direct sunlight) use.
- 1/200-240V & 3/380-480V input voltage.
- Heavy Duty rated - 150% current overload capacity.
- Built-in Category-2 RFI Filter
- 0 to 500 Hz output frequency.
- 2.5 to 15 kHz adjustable switching frequency (4 kHz standard)
- Built-in 24Vdc Power supply (max. 150 mA).
- Built-in RS-485 (Modbus RTU/BACnet) communication.
- Four isolated programmable digital inputs.
- One programmable relay output (1NO, 1NC, 240vac 0.5A).
- One programmable transistor output.
- One isolated programmable analog input (0-10V, 0/4-20mA).
- One isolated programmable analog output (0-10V, 0/4-20mA).
- Optional Safe Torque off Module.
- WLP and WPS compatible.

## Applications

- Pumps
- Fans/ventilators
- Blowers
- Conveyors
- Rollout tables
- Mixers/Blenders
- Commercial dryers
- Extruders
- General machinery
- Agitators

## MW500-G2 CATALOG NUMBER SEQUENCE





## MW500 - G2 - IP66 / NEMA4X Enclosure without Disconnect Switch

Motor Voltage	Wall Mounted @ 40°C <sup>1</sup> or Motor Mounted @ 50°C <sup>2</sup>		Motor Mounted @ 40°C <sup>2</sup>		Catalog Number	Braking Transistor	Motor Terminal Box Size	Frame Size	Dimensions (in.) HxWxD	Approx. Weight (lbs.)	List Price	Multiplier Symbol
	HD - Motor HP <sup>3</sup>	HD - Drive Amps <sup>4</sup>	HD - Motor HP <sup>3</sup>	HD - Drive Amps <sup>4</sup>								
230 Vac / 3 Phase	Input Power Supply: Single-Phase 200-240 Vac											
	1/2	2.1	3/4	2.8	MW500A02P1S2DB66C2A56G2	Yes	56 mm	A	10.01 x 6.36 x 5.79	9.3	\$1,413	V1W
	3/4	2.9	1	3.8	MW500A02P9S2DB66C2A56G2	Yes	56 mm	A	10.01 x 6.36 x 5.79	9.3	\$1,436	V1W
	1	3.4	1 1/2	4.5	MW500A03P4S2DB66C2A56G2	Yes	56 mm	A	10.01 x 6.36 x 5.79	9.3	\$1,449	V1W
	1 1/2	4.3	2	5.7	MW500A04P3S2DB66C2A56G2	Yes	56 mm	A	10.01 x 6.36 x 5.79	9.3	\$1,468	V1W
	2	6.0	2	6.0	MW500A06P0S2DB66C2A56G2	Yes	56 mm	A	10.01 x 6.36 x 5.79	9.3	\$1,532	V1W
460 Vac / 3 Phase	Input Power Supply: Three-Phase 380-480 Vac											
	1/2	1.3	3/4	1.7	MW500A01P3T4DB66C2A56G2	Yes	56 mm	A	10.01 x 6.36 x 5.79	9.3	\$1,484	V1W
	3/4	1.6	1	2.1	MW500A01P6T4DB66C2A56G2	Yes	56 mm	A	10.01 x 6.36 x 5.79	9.3	\$1,494	V1W
	1	2.0	1 1/2	2.6	MW500A02P0T4DB66C2A56G2	Yes	56 mm	A	10.01 x 6.36 x 5.79	9.3	\$1,510	V1W
	1 1/2	2.6	2	3.4	MW500A02P6T4DB66C2A56G2	Yes	56 mm	A	10.01 x 6.36 x 5.79	9.3	\$1,532	V1W
	2	4.3	3	5.7	MW500A04P3T4DB66C2A56G2	Yes	56 mm	A	10.01 x 6.36 x 5.79	9.3	\$1,769	V1W
	3	5.2	5	7	MW500B05P2T4DB66C2A56G2	Yes	56 mm	B	11.11 x 7.48 x 6.44	11.9	\$1,933	V1W
	5	6.5	5	9	MW500B06P5T4DB66C2A56G2	Yes	56 mm	B	11.11 x 7.48 x 6.44	11.9	\$2,022	V1W
	7 1/2	10	10	13	MW500B10P0T4DB66C2A56G2	Yes	56 mm	B	11.11 x 7.48 x 6.44	11.9	\$2,170	V1W
	10	14	10	16.5	MW500C14P0T4DB66C2G2	Yes	70/110 mm	C	12.55 x 8.7 x 7.62	20.1	\$2,519	V1W
	10	16	15	19.2	MW500C16P0T4DB66C2G2	Yes	70/110 mm	C	12.55 x 8.7 x 7.62	20.1	\$2,839	V1W

## MW500 - G2 - IP66 / NEMA4X Enclosure with Disconnect Switch

Motor Voltage	Wall Mounted @ 40°C <sup>1</sup> or Motor Mounted @ 50°C <sup>2</sup>		Motor Mounted @ 40°C <sup>2</sup>		Catalog Number	Braking Transistor	Motor Terminal Box Size	Frame Size	Dimensions (in.) HxWxD	Approx. Weight (lbs.)	List Price	Multiplier Symbol
	HD - Motor HP <sup>3</sup>	HD - Drive Amps <sup>4</sup>	HD - Motor HP <sup>3</sup>	HD - Drive Amps <sup>4</sup>								
230 Vac / 3 Phase	Input Power Supply: Single-Phase 200-240 Vac											
	1/2	2.1	3/4	2.8	MW500A02P1S2DB66C2DSA56G2	Yes	56 mm	A	10.01 x 6.36 x 7.63	9.3	\$1,561	V1W
	3/4	2.9	1	3.8	MW500A02P9S2DB66C2DSA56G2	Yes	56 mm	A	10.01 x 6.36 x 7.63	9.3	\$1,590	V1W
	1	3.4	1 1/2	4.5	MW500A03P4S2DB66C2DSA56G2	Yes	56 mm	A	10.01 x 6.36 x 7.63	9.3	\$1,602	V1W
	1 1/2	4.3	2	5.7	MW500A04P3S2DB66C2DSA56G2	Yes	56 mm	A	10.01 x 6.36 x 7.63	9.3	\$1,625	V1W
	2	6.0	2	6.0	MW500A06P0S2DB66C2DSA56G2	Yes	56 mm	A	10.01 x 6.36 x 7.63	9.3	\$1,699	V1W
460 Vac / 3 Phase	Input Power Supply: Three-Phase 380-480 Vac											
	1/2	1.3	3/4	1.7	MW500A01P3T4DB66C2DSA56G2	Yes	56 mm	A	10.01 x 6.36 x 7.63	9.3	\$1,644	V1W
	3/4	1.6	1	2.1	MW500A01P6T4DB66C2DSA56G2	Yes	56 mm	A	10.01 x 6.36 x 7.63	9.3	\$1,657	V1W
	1	2.0	1 1/2	2.6	MW500A02P0T4DB66C2DSA56G2	Yes	56 mm	A	10.01 x 6.36 x 7.63	9.3	\$1,676	V1W
	1 1/2	2.6	2	3.4	MW500A02P6T4DB66C2DSA56G2	Yes	56 mm	A	10.01 x 6.36 x 7.63	9.3	\$1,699	V1W
	2	4.3	3	5.7	MW500A04P3T4DB66C2DSA56G2	Yes	56 mm	A	10.01 x 6.36 x 7.63	9.3	\$1,965	V1W
	3	5.2	5	7	MW500B05P2T4DB66C2DSA56G2	Yes	56 mm	B	11.11 x 7.48 x 8.28	11.9	\$2,150	V1W
	5	6.5	5	9	MW500B06P5T4DB66C2DSA56G2	Yes	56 mm	B	11.11 x 7.48 x 8.28	11.9	\$2,250	V1W
	7 1/2	10	10	13	MW500B10P0T4DB66C2DSA56G2	Yes	56 mm	B	11.11 x 7.48 x 8.28	11.9	\$2,413	V1W
	10	14	10	16.5	MW500C14P0T4DB66C2DSG2	Yes	70/110 mm	C	12.55 x 8.7 x 7.62	20.1	\$2,807	V1W
	10	16	15	19.2	MW500C16P0T4DB66C2DSG2	Yes	70/110 mm	C	12.55 x 8.7 x 7.62	20.1	\$3,166	V1W

### NOTES:

- 1) The Wall mounting adapter plate "MW500-KCFx-CLxx" must be used for mounting the drive on the wall. It is not included with the drive.
- 2) Ratings considering the MW500 assembled on a self-ventilated motor with the mentioned maximum ambient temp. w/o derating.
- 3) "HP" rating based on WEG W22, 4-Pole motor's "average FLA values". Use as a guide only.
- 4) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of the drive.

## Options and Accessories

Type	CATALOG NUMBER	Description	Apprx. Shpg. Wt. (lbs.)	List Price	Multiplier
I/O	<a href="#">CFW500-IOS</a> <sup>1</sup>	CFW500 I/O Module; 4 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 1 RS485, 10vdc, 24vdc	0.2	<b>\$110</b>	V1G
	<a href="#">CFW500-IOD</a>	CFW500 I/O Module; 8 DI, 1 AI, 1 AO, 1 DOR, 4 DOT, 1 RS485, 10vdc, 24vdc	0.2	<b>\$141</b>	V1G
	<a href="#">CFW500-IOAD</a>	CFW500 I/O Module; 6 DI, 3 AI, 2 AO, 1 DOR, 3 DOT, 1 RS485, 10vdc, 24vdc	0.2	<b>\$182</b>	V1G
	<a href="#">CFW500-IOR-B</a>	CFW500 I/O Module; 5 DI, 1 AI, 1 AO, 4 DOR, 1 DOT, 1 RS485, 10vdc, 24vdc	0.2	<b>\$125</b>	V1G
Encoder Input	<a href="#">CFW500-ENC</a>	CFW500 Encoder Module; Quad Input A & B, 1 RS485, 5 DI, 1 AI, 1 AO, 3 DOR, 1 DOT, 24vdc	0.2	<b>\$210</b>	V1G
USB Card	<a href="#">CFW500-CUSB</a>	CFW500 Comm. Module; 1 USB, 1 RS485, 4 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 10vdc, 24vdc	0.2	<b>\$210</b>	V1G
RS232 Card	<a href="#">CFW500-CRS232</a>	CFW500 Comm. Module; 1 RS232, 1 RS485, 4 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 24vdc	0.2	<b>\$138</b>	V1G
RS485 Card	<a href="#">CFW500-CRS485-B</a>	CFW500 Comm. Module; 2 RS485, 4 DI, 2 AI, 1 AO, 2 DOR, 1 DOT, 10vdc, 24vdc	0.2	<b>\$143</b>	V1G
CANopen Card	<a href="#">CFW500-CCAN</a>	CFW500 Comm. Module; 1 CAN/DeviceNet, 1 RS485, 2 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 10vdc, 24vdc	0.2	<b>\$138</b>	V1G
Profibus DP Card	<a href="#">CFW500-CPDP</a>	CFW500 Comm. Module; 2 DI, 1 AI, 1 AO, 1 DOR, 1 DOT, 1 Profibus DP, 1 RS485, 24vdc (DB9 connector)	0.2	<b>\$405</b>	V1G
Profibus DP & DP-V1 Module	<a href="#">CFW500-CPDP2</a>	CFW500 Comm. Module; 1-Profibus DP & DP-V1 100BASE TX RJ-45 Port, 1-RS485, 2-DI, 1-AI, 1-AO, 1-DOR, 1-DOT, 24vdc (Terminal Block Connector)	0.2	<b>\$445</b>	V1G
Modbus TCP Comm. Module	<a href="#">CFW500-CEMB-TCP</a>	CFW500 Comm. Module; 1-Modbus TCP 100BASE TX RJ-45 Port, 1-RS485, 2-DI, 1-AI, 1-AO, 1-DOR, 1-DOT, 24vdc	0.2	<b>\$499</b>	V1G
ProfiNet I/O Comm. Module	<a href="#">CFW500-CEPN-IO</a>	CFW500 Comm. Module; 1-ProfiNet I/O 100BASE TX RJ-45 Port, 1-RS485, 2-DI, 1-AI, 1-AO, 1-DOR, 1-DOT, 24vdc	0.2	<b>\$499</b>	V1G
EtherNet IP Comm. Module	<a href="#">CFW500-CETH-IP</a>	CFW500 Comm. Module; 2-DI, 1-AI, 1-AO, 1-DOR, 1-DOT, 1-RS485, 1-EtherNet IP 100BASE TX RJ-45 Port, 24vdc	0.2	<b>\$499</b>	V1G
Dual Port Ethernet Module (Ethernet/IP or Modbus TCP)	<a href="#">CFW500-CETH2</a>	CFW500 Dual Port Comm. Module; 2-DI, 1-AI, 1-DOT, 1-RS485, 2-EtherNet 100BASE TX RJ-45 Ports. Note: The module will require external 24vdc power to use 1-DOT. The CFW500-G2 drive must have FM V3.1x or above to use this module.	0.3	<b>\$575</b>	V1G
STO Module	<a href="#">CFW500-SFY2</a> <sup>2</sup>	CFW500 Safety Function Module; Safe Torque Off (STO) / Stop Category 0, Safe Stop 1 Time Controlled (SS1-t) / Stop Category 1; Safety Category: SIL 3, PL e	1.8	<b>\$140</b>	V1G
STO Module Plug	<a href="#">CFW50X-STO-JMP</a>	CFW50x STO module plug	0.2	<b>\$12</b>	PTD
Flash Memory Module	<a href="#">CFW500-MMF</a>	CFW500 Flash Memory Module for saving and reloading program and parameters to / from the drive.	0.2	<b>\$189</b>	V1G
Remote Keypad - Non Text	<a href="#">CFW500-HMIR</a> <sup>3</sup>	CFW500 Remote non-text Keypad for mounting through enclosure door (Mounting Frame Kit is not required).	0.6	<b>\$169</b>	V1G
Remote Keypad - Advanced Text	<a href="#">HMI-01</a> <sup>4</sup>	CFW500 Remote Advanced Text Keypad for mounting through enclosure door (Mounting Frame Kit is required).	0.4	<b>\$205</b>	V1G
Remote Keypad - Advanced Text Frame Kit	<a href="#">CFW500-RHMIF</a>	CFW500 Remote Advanced Text Keypad "HMI-01" enclosure door mounting frame kit	0.5	<b>\$25</b>	V1G
Remote HMI Cable	<a href="#">CFW500-CCHMIR01M</a>	3.3 ft (1 meter) Remote Keypad Cable	0.5	<b>\$23</b>	V1G
	<a href="#">CFW500-CCHMIR02M</a>	6.6 ft (2 meter) Remote Keypad Cable	0.7	<b>\$31</b>	V1G
	<a href="#">CFW500-CCHMIR03M</a>	9.9 ft (3 meter) Remote Keypad Cable	1	<b>\$41</b>	V1G
	<a href="#">CFW500-CCHMIR05M</a>	16 ft (5 meter) Remote Keypad Cable	1.2	<b>\$51</b>	V1G
	<a href="#">CFW500-CCHMIR075M</a>	25 ft (7.5 meter) Remote Keypad Cable	1.5	<b>\$61</b>	V1G
	<a href="#">CFW500-CCHMIR010M</a>	33 ft (10 meter) Remote Keypad Cable	2	<b>\$72</b>	V1G
	<a href="#">MW500-CCHMIR02M</a>	6.6 ft (2 meter) Coiled Remote keypad cable (M8-DB9 connectors) to connect "CFW500-HMIR" via XC10 connector of MW500	1	<b>\$286</b>	V1W
MW500 Adapter kit	<a href="#">MW500-KAIM-A70</a>	Adapter kit to mount MW500 frame-A with 56mm terminal box on the motor with 70mm Terminal box	3.5	<b>\$61</b>	V1W
	<a href="#">MW500-KAIM-B70</a>	Adapter kit to mount MW500 frame-B with 56mm terminal box on the motor with 70mm Terminal box	8	<b>\$68</b>	V1W
MW500 Wall mounting kit	<a href="#">MW500-KCFA-CL56</a>	Wall mounting kit for MW500 frame-A with 56mm terminal box	1	<b>\$36</b>	V1W
	<a href="#">MW500-KCFB-CL56</a>	Wall mounting kit for MW500 frame-B with 56mm terminal box	1	<b>\$42</b>	V1W
	<a href="#">MW500-KCFC-CL70/110</a>	Wall mounting kit for MW500 frame-C	4	<b>\$65</b>	V1W

**NOTES:**

1) The "CFW500-IOS" module is included as standard with MW500 Drives.

2) The "CFW500-SFY2" Module can be installed in addition to the "CFW500-IOS" or any other I/O or communication module.

3) The "CFW500-HMIR" (Non-Text) Remote Keypad requires (1) CFW500-CCHIR0xM ("x" represents the cable length in meters) or (1) MW500-CCHMIR02M remote keypad cable.

4) The "HMI-01" (Advanced Text) Remote Keypad requires (1) CFW500-RHMIF & (1) CFW500-CCHIR0xM remote keypad cable. ("x" represents the cable length in meters).

## Options and Accessories

MW500 Option Module	DI	AI	AO	DOR	DOT	Infrared	Encoder	USB	RS232	RS485	CANopen/ DeviceNet	Profibus-DP / DP V1	Modbus TCP	ProfiNet I/O	EtherNet I/P
CFW500-IOS <sup>1</sup>	4	1	1	1	1	-	-	-	-	1	-	-	-	-	-
CFW500-IOD	8	1	1	1	4	-	-	-	-	1	-	-	-	-	-
CFW500-IOAD	6	3	2	1	3	-	-	-	-	1	-	-	-	-	-
CFW500-IOR / CFW500-IOR-B	5	1	1	4	1	1	-	-	-	1	-	-	-	-	-
CFW500-ENC	5	1	1	3	1	-	1	-	-	1	-	-	-	-	-
CFW500-CUSB	4	1	1	1	1	-	-	1	-	1	-	-	-	-	-
CFW500-CRS232	4	1	1	1	1	-	-	-	1	1	-	-	-	-	-
CFW500-CRS485-B	4	2	1	2	1	-	-	-	-	2	-	-	-	-	-
CFW500-CCAN	2	1	1	1	1	-	-	-	-	1	1	-	-	-	-
CFW500-CPDP	2	1	1	1	1	-	-	-	-	1	-	1	-	-	-
CFW500-CPDP2	2	1	1	1	1	-	-	-	-	1	-	1	-	-	-
CFW500-CEMB-TCP	2	1	1	1	1	-	-	-	-	1	-	-	1	-	-
CFW500-CEPN-IO	2	1	1	1	1	-	-	-	-	1	-	-	-	1	-
CFW500-CETH-IP	2	1	1	1	1	-	-	-	-	1	-	-	-	-	1
CFW500-CETH2	2	1	-	-	1	-	-	-	-	1	-	-	1	-	1

**NOTES:**

1) The MW500 drive comes standard with "CFW500-IOS" Module. To use any of the above-listed optional modules, the CFW500-IOS module needs to be removed from the drive. In that case, the number of I/Os will depend on the I/O or communication module being used.

## FOR MOTOR MOUNTING: Selection of MW500 based on Motor Frame & use of Adapter Kits

MW500 Drive			IEC Motor Frame (WEG W22 Motor)							NEMA Motor Frame (WEG W22 Motor)						
MW500 Drive Model	Frame Size	Terminal Box (mm)	71	80	90	100	112		132	160	180	143T/145T	182T/184T	213T/215T	254T/256T	284T/286T
			56 x 56				70 x 70			110 x 110		56 x 56	70 x 70		110 x 110	
MW500A...56...	A	56 x 56	Yes				With "MW500-KAIM-A70"		No	No		Yes	With "MW500-KAIM-A70"		No	
MW500B...56...	B	56 x 56	Yes				With "MW500-KAIM-B70"			No		Yes	With "MW500-KAIM-B70"		No	
MW500C...	C	70 x 70 110 x 110	No				Yes			Yes		No	Yes		Yes	

## FOR WALL MOUNTING:

MW500 Drive		WALL MOUNTING KIT
MW500 Drive Model	Frame Size	
MW500A...56...	A	MW500-KCFA-CL56
MW500B...56...	B	MW500-KCFB-CL56
MW500C...	C	MW500-KCFC-CL70/110

## Technical data

<b>Power</b>	<b>Power supply</b>	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%
<b>Control</b>	<b>Method</b>	Control types: V/F (scalar) VW: voltage vector control Vector without encoder (sensorless) and vector with encoder VW PM: voltage vector control for permanent magnet motors
	<b>Output frequency</b>	0 to 500 Hz, resolution of 0.015 Hz
<b>Performance</b>	<b>V/F control</b>	Speed regulation: 1% of the rated speed (with sleep compensation) Speed variation range: 1:20
	<b>Vector control (VW)</b>	Speed regulation: 1% of the rated speed Speed variation range: 1:30
	<b>Vector without encoder (sensorless)</b>	Regulation: 0.5% of the rated speed Speed variation range: 1:100
	<b>Vector with encoder</b>	Regulation: ±0.01% of the rated speed Speed variation range: 1:100
	<b>VW PM<sup>4</sup> control</b>	Regulation: 0.1% of the rated speed Speed variation range: 1:20
<b>Braking methods</b>	<b>Dynamic braking</b>	Available as standard for frames A, B and C An external resistor must be used for dynamic braking capability
<b>Environmental conditions</b>	<b>Temperature around the CFW500</b>	-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
	<b>Air relative humidity</b>	5% to 95% non-condensing
	<b>Altitude</b>	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
	<b>Protection rating</b>	IP66/NEMA 4X
<b>Inputs<sup>1)</sup></b>	<b>Analog</b>	1 isolated input Levels: (0 to 10) V or (0 to 20) mA or (4 to 20) mA Linearity error ≤0.25% Impedance: 100 kΩ for voltage input, 500 Ω for current input Programmable functions, including PTC input Maximum voltage accepted in the inputs: 30 V <sub>oc</sub>
	<b>Digital</b>	4 isolated inputs Programmable functions: Active high (PNP): maximum low level 15 V <sub>oc</sub> ; minimum high level 20 V <sub>oc</sub> Active low (NPN): maximum low level 5 V <sub>oc</sub> ; minimum high level 9 V <sub>oc</sub> Maximum input voltage 30 V <sub>oc</sub> Input current: 4.5 mA Max input current: 5.5 mA
<b>Outputs<sup>1)</sup></b>	<b>Analog</b>	1 isolated output Levels (0 to 10) V or (0 to 20) mA or (4 to 20) mA Linearity error ≤0.25% Programmable functions RL ≥10 kΩ (0 to 10 V) or RL ≤500 Ω (0 to 20 mA / 4 to 20 mA)
	<b>Relay</b>	1 relays with NO/NC contact Maximum voltage: 240 Vac Maximum current 0.5 A Programmable functions
	<b>Transistor</b>	1 open sink isolated digital output (uses the 24 V <sub>oc</sub> source as reference) Maximum current 150 mA (maximum source capacity 24 V <sub>oc</sub> ) <sup>2)</sup> Programmable functions
	<b>Power supply</b>	Power supply 24 V <sub>oc</sub> Maximum capacity: 150 mA <sup>2)</sup> Power supply 10 V <sub>oc</sub> Maximum capacity: 2 mA
<b>Communication</b>	<b>Plug-in modules</b>	Fieldbus: Modbus-RTU, CANopen, DeviceNet, Profibus-DP, EtherNet/IP, Modbus-TCP, PROFINET IO USB, RS485, and RS232
<b>Safety</b>	<b>Protection</b>	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 I <sub>n</sub> (inverter) for 1 minute, every 10 minutes) <sup>5)</sup> Power module (IGBTs) overload External fault / alarm Setting error STO and SS1 safety functions (accessory)
<b>Human machine interface (HMI)</b>	<b>CFW500-HMIR Accessory</b>	9 keys: Run/Stop, Increment, Decrement, Direction 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.

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.

3) Designed for exclusive industrial or professional use.

4) The VW PM function is available for all VFDs 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 I<sub>n</sub>.

## Standards

<b>Standards</b>	<b>Safety standards</b>	UL 61800-5-1: Adjustable Speed Electrical Drive Systems - Part 5-1.
		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 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
	<b>Electromagnetic compatibility standards</b>	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 - Part 4: testing and measurement techniques - Section 3: radiated, 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	
<b>Mechanical construction standards</b>	EN 60529 - Degrees of protection provided by enclosures (IP code)	
	UL 50 - Enclosures for electrical equipment	







# Global presence

is essential, as much  
as understanding  
your needs.

## Global Presence

With more than 40,000 employees worldwide, WEG is one of the largest electric motors, electronic equipments and systems manufacturers. We are constantly expanding our portfolio of products and services with expertise and market knowledge. We create integrated and customized solutions ranging from innovative products to complete after-sales service.

WEG's know-how guarantees the **MW500 – Decentralized VFD – 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



**Competitive edge** is to unite technology and innovation

## Know More

High performance and reliable products to improve your production process.

Excellence is to provide a whole solution in industrial automation that improves our customers productivity.

Visit:

[www.weg.net](http://www.weg.net)



[youtube.com/wegvideos](https://youtube.com/wegvideos)



WEG's scope of solutions is not limited to the products and solutions presented in this brochure.

**Contact WEG for information on additional products and solutions.**

For WEG's worldwide operations visit our website



[www.weg.net](http://www.weg.net)



 1-800-ASK-4WEG

 [info-us@weg.net](mailto:info-us@weg.net)

 Duluth, GA