CFW500

Variable Speed Drive

CFW500

Machinery Drive

Endless possibilities

The CFW500 variable speed drive is a ***high-performance VSD*** for applications that require speed and torque control of three-phase induction motors. It ***has vector or scalar control,*** SoftPLC, which adds PLC (Programmable Logic Controller) functions, Pump Genius, which allows driving several pumps, and selectable plug-in modules, ***forming a flexible and optimized solution.***

Characteristics

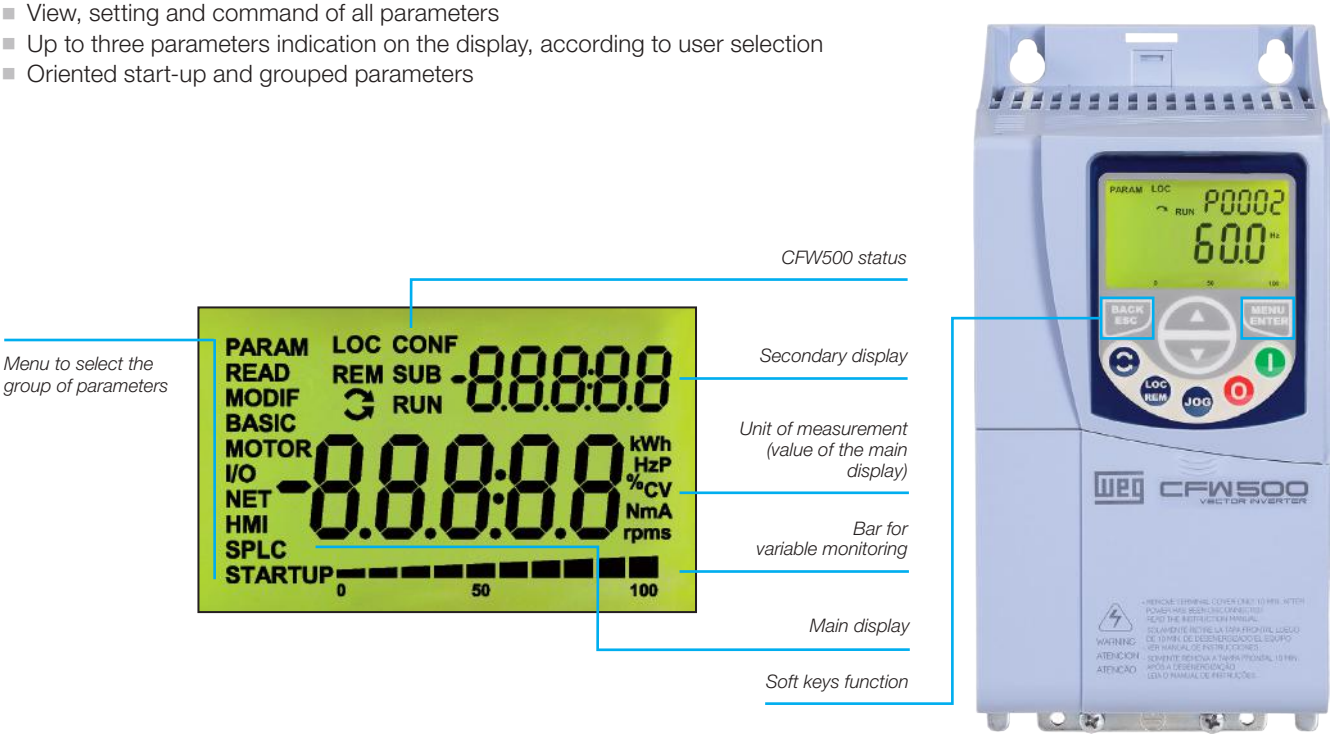
- Output current 1.0 to 56.0 A (0.25 to 30.0 cv / 0.18 to 22.0 kW)
- Single and three-phase power supply 200-240 V, 380-480 V or 500-600 V
- Scalar (V/F), VVW Vector, Sensorless Vector and Vector with Encoder
- Selectable plug-in module
- Plug and play philosophy
- Built-in Operating and Programming Interface (HMI)
- Built-in RS485 port (in any plug-in module selected)
- Pump Genius - Multipump
- SoftPLC - built-in PLC functionalities
- Side by side installation (for temperatures below 40 °C)
- Operating ambient temperature 50 °C
- Surface or DIN rail mounting
- Brake IGBT (available on frame sizes B and C)
- 3C2 or 3C3 protection class for application in environments with corrosive chemical substances.
- IP20 protection degree (standard) and NEMA1 (optional)
- Fan with fast exchange system
- Internal RFI filter (optional)
- Fault or alarm diagnosis
- Fieldbus communications (according to plug-in module selected) CANopen, DeviceNet, Profibus-DP or Ethernet
- USB communication port (CFW500-CUSB plug-in)
- Memory card for data transfers (parameters and SoftPLC) without the necessity to power up the CFW500 (CFW500-MMF accessory)
- Free WLP and SuperDrive G2 programming softwares available at www.weg.net
- Remote serial operating interface (HMI) (CFW500-HMIR accessory)

Certifications

Simplified Programming and Operation

Operating Interface (HMI)

- View, setting and command of all parameters
- Up to three parameters indication on the display, according to user selection
- Oriented start-up and grouped parameters



Note: the operating interface (HMI) of the CFW500 is not removable. For remote operation of the HMI, use the CFW500-HMIR accessory, according to the accessory table on page 12.

Remote Operating Interface (HMI)

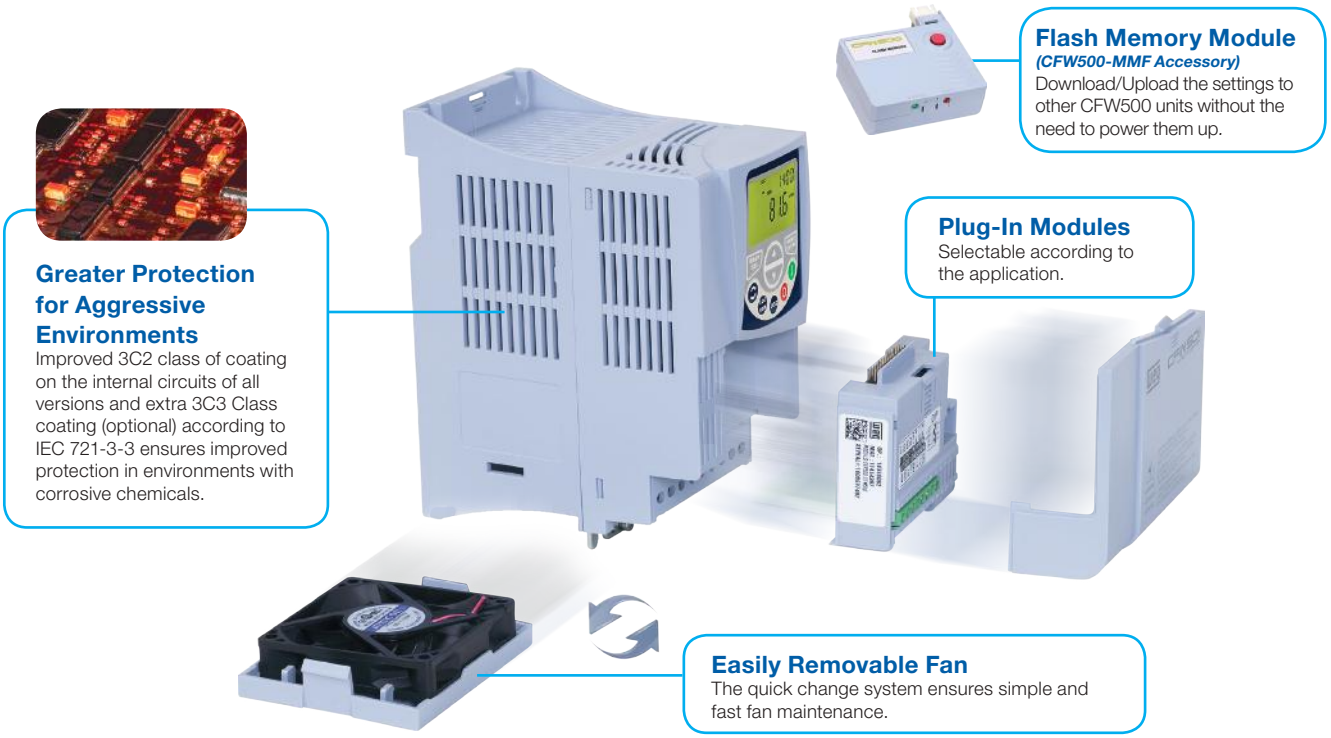
Solutions for machine consoles and panels.

CFW500-HMIR
Accessory

Flexibility and Performance

The CFW500 has a modern design, and it can be selected according to the application requirements, providing flexibility with excellent performance. In the plug-in module version, the CFW500-IOS module comes with the VSD. In the version without plug-in module, the desired plug-in module may be selected (always one plug-in module per VSD). All plug-in modules have built-in RS485 Modbus-RTU.

The installation of the CFW500 is simple, and its configuration and operation is intuitive with the navigation menus of the operating interface (HMI) with built-in LCD display. Using the flash memory module, it is possible to download the existing setting from one CFW500 to other units without powering them up.

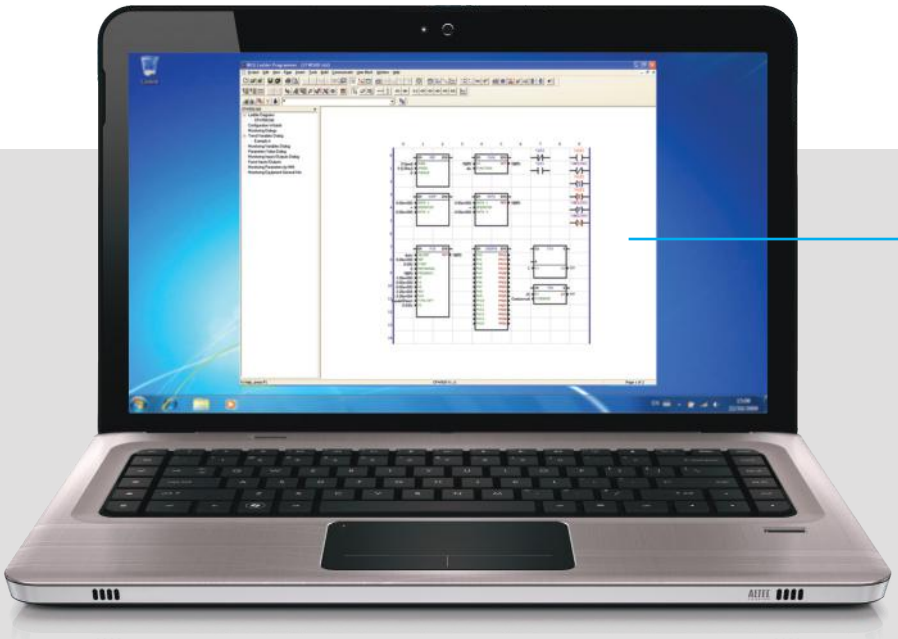


Flash Memory Module
(CFW500-MMF Accessory)
Download/Upload the settings to other CFW500 units without the need to power them up.

Plug-In Modules
Selectable according to the application.

Greater Protection for Aggressive Environments
Improved 3C2 class of coating on the internal circuits of all versions and extra 3C3 Class coating (optional) according to IEC 721-3-3 ensures improved protection in environments with corrosive chemicals.

Easily Removable Fan
The quick change system ensures simple and fast fan maintenance.



SoftPLC
It is a software resource added to the CFW500 which allows the user to implement and debug logic projects equivalent to a small PLC (Programmable Logic Controller), customizing and integrating the CFW500 to the application. The free WLP programming software is available on: www.weg.net.

Connectivity

The CFW500 can be connected to the main fast industrial Fieldbus communication networks, with protocols used worldwide such as CANopen, Profibus-DP, DeviceNet and Ethernet, according to the plug-in module selected.

In addition, all plug-in modules come with serial interface RS485 Modbus-RTU built-in.

Remote operating interface (HMI) (CFW500-HMIR accessory)

Easy operation and view

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

Functionality expansion:
Incremental encoder
USB

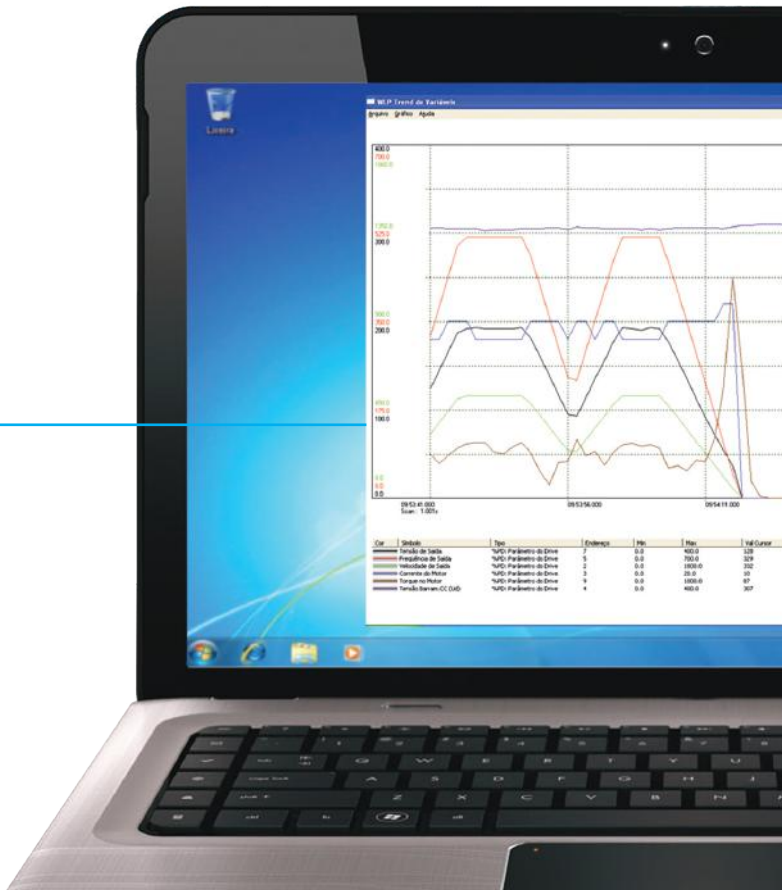
Fieldbus communication protocols:
CANopen
DeviceNet
RS232
RS485
Profibus-DP
Ethernet-IP
Ethernet Modbus-TCP
Profinet-IO

Selectable plug-in modules

Free at www.weg.net

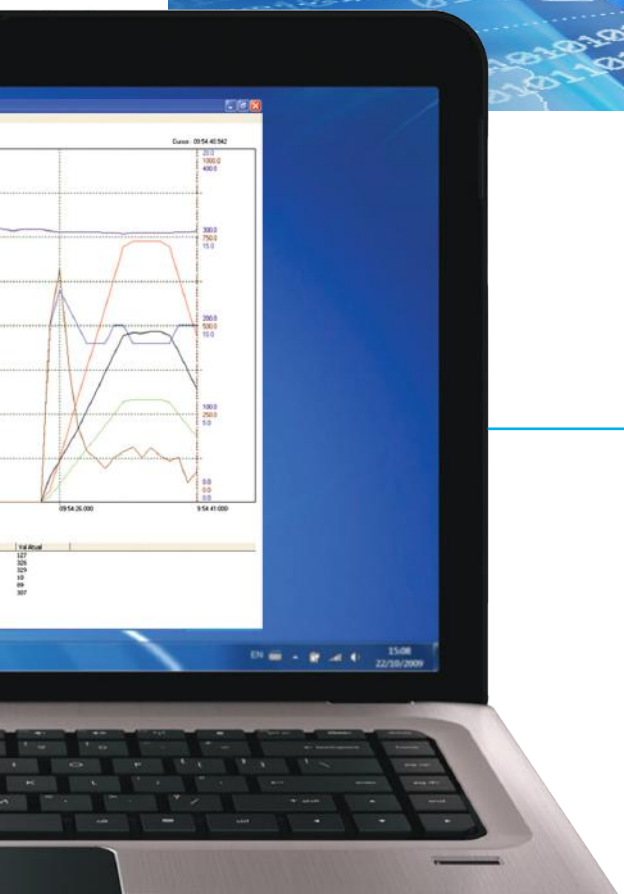
USB Connection (CFW500-CUSB accessory)

SuperDrive G2



Features

- Password to protect the parameters
- Special engineering units (RPM, ºC, Nm, mA, %, kW, kWh, among others)
- Backup of all parameters (via SuperDrive G2 software, memory card or memory of the CFW500)
- Possibility to save up to two different settings on the memory of the CFW500
- 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) or self-adjustment (VVW vector mode)
- Acceleration/deceleration ramps
- “S” type ramp
- DC braking
- Internal dynamic braking (frame size B and biggers)
- PID controller to control processes in closed loop
- Flying start / Ride-through
- Sleep mode
- Skip frequencies or frequency ranges function
- Overload and overtemperature protection
- Overcurrent protection
- DC link voltage supervision
- Fault log



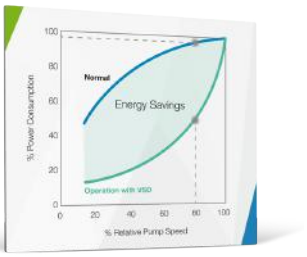
Using the SuperDrive G2 software, it is possible to change, monitor and view graphically the variables of the CFW500 on a personal computer.

Trend Function
Trend charts for online monitoring of parameters and other variables within the SuperDrive G2 software.

Pump Genius

multipump

Pump Genius Multipump is a free application developed to be used with the SoftPLC of the CFW500, it allows driving two or more pumps with only one inverter.

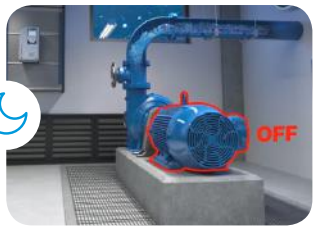


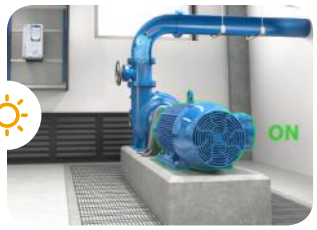
Energy Savings

The use of the CFW500 with the Pump Genius Multipump improves the performance and provides electric energy savings. Using this solution together with WEG W22 Premium motors, and reducing the pump speed even if slightly, it is possible to reduce the electric energy consumption by approximately 15%, thus contributing to the sustainable development of the planet.

Broken Pipe Alarm

Pump Genius detects when the pump is consuming more electric energy than it should, by means of information on the pump load and speed, automatically generating an alarm warning of leaky pipes. In addition, with the monitoring of the system pressure, a clogging condition may be detected by configuring the maximum pressure to trigger the alarm of clogged pipe.



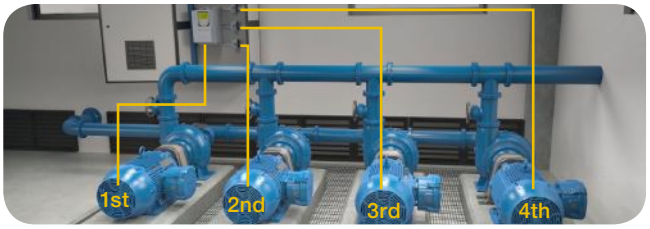


Sleep and Wake up Function

The sleep function keeps the pump in the standby mode when the demand or flow is below the necessary for long periods, providing electric energy savings and increasing the lifetime of the pump. The wake up function restarts the drive automatically when the pressure falls below the set point.

Pipe Charging Function

It allows lubrication and smooth initial charging of the pipes, making the pump operate at a lower preset speed for a certain time, avoiding “Water Hammers”, which may damage the piping system.



Fixed or Floating Control

Using fixed control, two to four pumps may be driven in parallel, where the CFW500 will always drive the same pump. Using floating control, two to three pumps may be driven, and the pump driven by the inverter may change according to the rotation requirements. The user chooses if the pumps will start in a preset sequence or in rotation, defining which pump should be started or stopped, according to the monitoring logic of operation time of each pump. The free PumpGenius Multipump application for the CFW500 is available at www.weg.net. For further details refer to the catalog or programming manual.

Applications

Extruders

Conveyor belts

Roller tables

Fans / exhausters

Centrifugal pumps

Granulators / palletizers

Cutting and welding machines

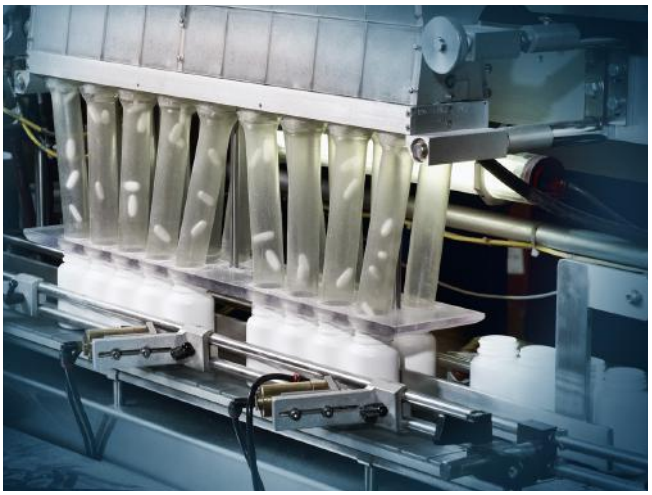
Dryers and rotary ovens

Process dosing pumps

Stirrers / mixers

Rotary filters

Winding machines / uncoiling machines



Coding

1	2	3	4	5	6	7	8	9	10
CFW500	A	02P6	T	4	NB	20	C2	---	---

1 - CFW500 variable speed drive
2 - Size of the CFW500, according to table 1 below
3 - Rated output current, according to table 1 below

Rated output current of the	Number of phases	Rated voltage	Frame size	Internal dynamic braking[1]	Degree of protection	Internal RFI filter[2]
01P6 = 1.6 A	Single-phase	200-240 V	A	NB	IP20 or N1	Blank or C2
02P6 = 2.6 A						
04P3 = 4.3 A						
07P0 = 7.0 A						Blank or C3
07P3 = 7.3 A			B	DB		C2
10P0 = 10.0 A						
01P6 = 1.6 A	Single-phase or three-phase		A	NB		Blank (not available)
02P6 = 2.6 A						
04P3 = 4.3 A						
07P3 = 7.3 A			B	DB		
10P0 = 10.0 A						
07P0 = 7.0 A	Three-phase		A	NB		Blank (not available)
09P6 = 9.6 A						
16P0 = 16 A			B	DB		
24P0 = 24 A			C	DB		
28P0 = 28 A			D	DB		Blank or C3
33P0 = 33 A						
47P0 = 47 A						
56P0 = 56.0 A			E	DB		
01P0 = 1.0 A	Three-phase	380-480 V	A	NB		Blank or C2
01P6 = 1.6 A						
02P6 = 2.6 A						
04P3 = 4.3 A						
06P1 = 6.1 A						Blank or C3
02P6 = 2.6 A			B	DB		Blank or C2
04P3 = 4.3 A						
06P5 = 6.5 A						
10P0 = 10.0 A						Blank or C3
14P0 = 14.0 A			C	DB		Blank or C2
16P0 = 16.0 A						
24P0 = 24.0 A			D	DB		Blank or C3
31P0 = 31.0 A						
39P0 = 39.0 A			E	DB		Blank or C3
49P0 = 49.0 A						

4 - Number of phases

S	Single-phase power supply
B	Single or three-phase power supply
T	Three-phase power supply

5 - Rated voltage

2	200-240 V
4	380-480 V
5	500-600 V

6 - Internal dynamic braking

NB	Without internal dynamic braking IGBT
DB	With internal dynamic braking IGBT

7- Protection degree

20	IP20 protection degree
N1	NEMA1 protection degree

8 - RFI filter

Blank	Without internal RFI filter
C2	With internal RFI filter - category 2
C3	With internal RFI filter - category 3

9 - Special hardware versions - H xx

9.1 - Plug-in module

Blank	With standard plug-in module
00	Without plug-in module

9.2 - Coating for harsh environments

Blank	Class 3C2 - Standard coating
EC	Class 3C3 - Extra coating

10 - Special software version - S xx

Blank	Standard software
xx	Special software

Notes: 1) Braking resistor not included.

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

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 cases. If necessary, our inverters also have radio frequency (RFI) filters to reduce even more those high-frequency electromagnetic interference signals. Item 8 of the table above shows how to select the models of internal RFI filters for the CFW500.

Definitions of IEC/EN 61800-3 standard. Categories:

Category C1: variable speed drives with voltage rating below 1,000 V and intended for application in the "First Environment".

Category C2: inverters with voltage rating below 1,000 V not provided with plugs or movable installations, and, when applied in the "First Environment", they must be installed and commissioned by a professional.

Category C3: inverters with voltage ratings below 1,000 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.

For RFI filters installed externally, refer to the CFW500 user manual.

Specification

CFW500 With IOS Plug-In Module Built-In

CFW500 variable speed drive						Maximum applicable motor[1]		
Reference[2]	Power supply (V)		Frame size	Internal dynamic braking (IGBT)	Rated output current (A)	Power supply (V)	Motor rated power	
							HP	kW
CFW500A01P6S2NB20	Single-phase	200-240	A	N/A	1.60	220	0.25	0.18
CFW500A02P6S2NB20					2.60		0.50	0.37
CFW500A04P3S2NB20					4.30		1.00	0.75
CFW500A07P0S2NB20					7.00		2.00	1.50
CFW500A01P6B2NB20	Single-phase or three-phase	200-240	A	N/A	1.60		0.25	0.18
CFW500A02P6B2NB20					2.60		0.50	0.37
CFW500A04P3B2NB20					4.30		1.00	0.75
CFW500B07P3B2DB20			B	Built-in	7.30		2.00	1.50
CFW500B10P0B2DB20					10.00		3.00	2.20
CFW500A07P0T2NB20	Three-phase	200-240	A	N/A	7.00		2.00	1.50
CFW500A09P6T2NB20					9.60		3.00	2.20
CFW500B16P0T2DB20			B	Built-in	16.00		5.00	3.70
CFW500C24P0T2DB20			C		24.00		7.50	5.50
CFW500D28P0T2DB20			D		28.00		10.00	7.50
CFW500D33P0T2DB20					33.00		12.50	9.00
CFW500D47P0T2DB20					47.00		15.00	11.00
CFW500E56P0T2DB20			E		56.00		20.00	15.00
CFW500A01P0T4NB20	Three-phase	380-480	A	N/A	1.00	380 or 440	0.25	0.18
CFW500A01P6T4NB20					1.60		0.50	0.37
CFW500A02P6T4NB20					2.60		1.50	1.10
CFW500A04P3T4NB20					4.30		2.00	1.50
CFW500A06P1T4NB20					6.10		3.00	2.20
CFW500B02P6T4DB20			B	Built-in	2.60		1.50	1.10
CFW500B04P3T4DB20					4.30		2.00	1.50
CFW500B06P5T4DB20					6.50		3.00	2.20
CFW500B10P0T4DB20					10.00		5.00	3.70
CFW500C14P0T4DB20			C		14.00		7.50	5.60
CFW500C16P0T4DB20					16.00		10.00	7.50
CFW500D24P0T4DB20			D		24.00		15.00	11.00
CFW500D31P0T4DB20					31.00		20.00	15.00
CFW500E39P0T4DB20			E		39.00		25.00	18.50
CFW500E49P0T4DB20					49.00		30.00	22.00
CFW500C01P7T5DB20		500-600	C	Built-in	1.70	600	1.00	0.75
CFW500C03P0T5DB20					3.00		2.00	1.50
CFW500C04P3T5DB20					4.30		3.00	2.20
CFW500C07P0T5DB20					7.00		5.00	3.70
CFW500C10P0T5DB20					10.00		7.50	5.50
CFW500C12P0T5DB20					12.00		10.00	7.50

Notes: 1) The power values for maximum applicable motor shown in the table above are reference values and valid for WEG four-pole, three-phase induction motors with power supply of 220 V, 380 V, 440 V or 600 V. The proper sizing of the CFW500 to be used must be determined as a function of the rated current of the motor used.

2) Included in this reference the CFW500-IOS standard plug-in module. Smart code without "H00".

N/A = Not applicable.

Specification

CFW500 Without Plug-In Module

You must select the smart code of the CFW500 without plug-in module (CFW500 xxx H00) + smart code of the desired plug-in module.

CFW500 variable speed drive						Maximum applicable motor[1]		
Reference[2]	Power supply (V)		Frame size	Internal dynamic braking (IGBT)	Rated output current (A)	Power supply (V)	Motor rated power	
							HP	kW
CFW500A01P6S2NB20H00	Single-phase	200-240	A	N/A	1.60	220	0.25	0.18
CFW500A02P6S2NB20H00					2.60		0.50	0.37
CFW500A04P3S2NB20H00					4.30		1.00	0.75
CFW500A07P0S2NB20H00					7.00		2.00	1.50
CFW500A01P6B2NB20H00	Single-phase or three-phase	200-240	A	N/A	1.60		0.25	0.18
CFW500A02P6B2NB20H00					2.60		0.50	0.37
CFW500A04P3B2NB20H00					4.30		1.00	0.75
CFW500B07P3B2DB20H00			B	Built-in	7.30		2.00	1.50
CFW500B10P0B2DB20H00					10.00		3.00	2.20
CFW500A07P0T2NB20H00	Three-phase	200-240	A	N/A	7.00		2.00	1.50
CFW500A09P6T2NB20H00					9.60		3.00	2.20
CFW500B16P0T2DB20H00			B	Built-in	16.00		5.00	3.70
CFW500C24P0T2DB20H00			C		24.00		7.50	5.50
CFW500D28P0T2DB20H00			D		28.00		10.00	7.50
CFW500D33P0T2DB20H00					33.00		12.50	9.00
CFW500D47P0T2DB20H00					47.00		15.00	11.00
CFW500E56P0T2DB20H00			E		56.00		20.00	15.00
CFW500A01P0T4NB20H00	Three-phase	380-480	A	N/A	1.00	380 or 440	0.25	0.18
CFW500A01P6T4NB20H00					1.60		0.50	0.37
CFW500A02P6T4NB20H00					2.60		1.50	1.10
CFW500A04P3T4NB20H00					4.30		2.00	1.50
CFW500A06P1T4NB20H00					6.10		3.00	2.20
CFW500B02P6T4DB20H00			B	Built-in	2.60		1.50	1.10
CFW500B04P3T4DB20H00					4.30		2.00	1.50
CFW500B06P5T4DB20H00					6.50		3.00	2.20
CFW500B10P0T4DB20H00					10.00		5.00	3.70
CFW500C14P0T4DB20H00			C		14.00		7.50	5.60
CFW500C16P0T4DB20H00					16.00		10.00	7.50
CFW500D24P0T4DB20H00			D		24.00		15.00	11.00
CFW500D31P0T4DB20H00					31.00		20.00	15.00
CFW500E39P0T4DB20H00			E		39.00		25.00	18.50
CFW500E49P0T4DB20H00					49.00		30.00	22.00
CFW500C01P7T5DB20H00		500-600	C	Built-in	1.70	600	1.00	0.75
CFW500C03P0T5DB20H00					3.00		2.00	1.50
CFW500C04P3T5DB20H00					4.30		3.00	2.20
CFW500C07P0T5DB20H00					7.00		5.00	3.70
CFW500C10P0T5DB20H00					10.00		7.50	5.50
CFW500C12P0T5DB20H00					12.00		10.00	7.50

Notes: 1) The power values for the maximum applicable motor shown in the table above are reference values and valid for WEG three-phase, four-pole induction motors with power supply of 220 V, 380 V, 440 V or 600 V. The proper sizing of the CFW500 to be used must be determined as a function of the rated current of the motor used.

2) No plug-in module included in this reference. A plug-in module must be added according to the table on page 15.

N/A = Not applicable.

Specification

CFW500 With IOS Plug-In Module and RFI Filter Built-In

CFW500 variable speed drive						Maximum applicable motor[1]		
Reference[2]	Power supply (V)		Frame size	Internal dynamic braking (IGBT)	Rated output current (A)	Power supply (V)	Motor rated power	
							HP	kW
CFW500A01P6S2NB20C2	Single-phase	200-240	A	N/A	1.60	220	0.25	0.18
CFW500A02P6S2NB20C2					2.60		0.50	0.37
CFW500A04P3S2NB20C2					4.30		1.00	0.75
CFW500A07P0S2NB20C3					7.00		2.00	1.50
CFW500B07P3S2DB20C2			B	Built-in	7.30		2.00	1.50
CFW500B10P0S2DB20C2					10.00		3.00	2.20
N/A	Single-phase or three-phase	200-240	A	N/A	1.60		0.25	0.18
N/A					2.60		0.50	0.37
N/A					4.30		1.00	0.75
N/A			B	Built-in	7.30		2.00	1.50
N/A					10.00		3.00	2.20
N/A	Three-phase	200-240	A	N/A	7.00		2.00	1.50
N/A					9.60		3.00	2.20
N/A			B	Built-in	16.00		5.00	3.70
N/A			C		24.00		7.50	5.50
CFW500D28P0T2DB20C3			D		28.00		10.00	7.50
CFW500D33P0T2DB20C3					33.00		12.50	9.00
CFW500D47P0T2DB20C3					47.00		15.00	11.00
CFW500E56P0T2DB20C3			E		56.00		20.00	15.00
CFW500A01P0T4NB20C2	Three-phase	380-480	A	N/A	1.00	380 or 440	0.25	0.18
CFW500A01P6T4NB20C2					1.60		0.50	0.37
CFW500A02P6T4NB20C2					2.60		1.50	1.10
CFW500A04P3T4NB20C2					4.30		2.00	1.50
CFW500A06P1T4NB20C3					6.10		3.00	2.20
CFW500B02P6T4DB20C2			B	Built-in	2.60		1.50	1.10
CFW500B04P3T4DB20C2					4.30		2.00	1.50
CFW500B06P5T4DB20C2					6.50		3.00	2.20
CFW500B10P0T4DB20C3					10.00		5.00	3.70
CFW500C14P0T4DB20C2			C		14.00		7.50	5.60
CFW500C16P0T4DB20C2					16.00		10.00	7.50
CFW500D24P0T4DB20C3			D		24.00		15.00	11.00
CFW500D31P0T4DB20C3					31.00		20.00	15.00
CFW500E39P0T4DB20C3			E		39.00		25.00	18.50
CFW500E49P0T4DB20C3					49.00		30.00	22.00

Notes: 1) The power values for the maximum applicable motor shown in the table above are reference values and valid for WEG three-phase, four-pole induction motors with power supply of 220 V, 380 V or 440 V. The proper sizing of the CFW500 to be used must be determined as a function of the rated current of the motor used.

2) Included in this reference the CFW500-IOS standard plug-in module and internal RFI filter.

N/A = Not applicable.

Specification

CFW500 Without Plug-In Module And RFI Filter Built-In

You must select the smart code of the CFW500 without plug-in module + smart code of the desired plug-in module (according to the selection table on page 15).

CFW500 variable speed drive						Maximum applicable motor[1]		
Reference[2]	Power supply (V)		Frame size	Internal dynamic braking (IGBT)	Rated output current (A)	Power supply (V)	Motor rated power	
							HP	kW
CFW500A01P6S2NB20C2H00	Single-phase	200-240	A	N/A	1.60	220	0.25	0.18
CFW500A02P6S2NB20C2H00					2.60		0.50	0.37
CFW500A04P3S2NB20C2H00					4.30		1.00	0.75
CFW500A07P0S2NB20C3H00					7.00		2.00	1.50
CFW500B07P3S2DB20C2H00			B	Built-in	7.30		2.00	1.50
CFW500B10P0S2DB20C2H00					10.00		3.00	2.20
N/A	Single-phase or three-phase	200-240	A	N/A	1.60		0.25	0.18
N/A					2.60		0.50	0.37
N/A					4.30		1.00	0.75
N/A			B	Built-in	7.30		2.00	1.50
N/A					10.00		3.00	2.20
N/A	Three-phase	200-240	A	N/A	7.00		2.00	1.50
N/A					9.60		3.00	2.20
N/A			B	Built-in	16.00		5.00	3.70
N/A			C		24.00		7.50	5.50
CFW500D28P0T2DB20C3H00			D		28.00		10.00	7.50
CFW500D33P0T2DB20C3H00					33.00		12.50	9.00
CFW500D47P0T2DB20C3H00					47.00		15.00	11.00
CFW500E56P0T2DB20C3H00			E		56.00		20.00	15.00
CFW500A01P0T4NB20C2H00	Three-phase	380-480	A	N/A	1.00	380 or 440	0.25	0.18
CFW500A01P6T4NB20C2H00					1.60		0.50	0.37
CFW500A02P6T4NB20C2H00					2.60		1.50	1.10
CFW500A04P3T4NB20C2H00					4.30		2.00	1.50
CFW500A06P1T4NB20C3H00					6.10		3.00	2.20
CFW500B02P6T4DB20C2H00			B	Built-in	2.60		1.50	1.10
CFW500B04P3T4DB20C2H00					4.30		2.00	1.50
CFW500B06P5T4DB20C2H00					6.50		3.00	2.20
CFW500B10P0T4DB20C3H00					10.00		5.00	3.70
CFW500C14P0T4DB20C2H00			C		14.00		7.50	5.60
CFW500C16P0T4DB20C2H00					16.00		10.00	7.50
CFW500D24P0T4DB20C3H00			D		24.00		15.00	11.00
CFW500D31P0T4DB20C3H00					31.00		20.00	15.00
CFW500E39P0T4DB20C3H00			E		39.00		25.00	18.50
CFW500E49P0T4DB20C3H00					49.00		30.00	22.00

Notes: 1) The power values for the maximum applicable motor shown in the table above are reference values and valid for WEG three-phase, four-pole induction motors with power supply of 220 V, 380 V or 440 V. The proper sizing of the CFW500 to be used must be determined as a function of the rated current of the motor used.

2) No plug-in module included in this reference, only RFI filter. A plug-in module must be added according to the table on page 15.

N/A = Not applicable.

Specification

Plug-In Module Selection[1)]

You must select the smart code of the plug-in module together with the smart code of the CFW500 without plug-in module. You must always select only one plug-in module per CFW500.

Reference	Description	Illustrative figures
	Input and output (I/O) expansion	
CFW500-IOS	Standard plug-in module (included in the version with 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	
CFW500-IOR	Relay output expansion plug-in module	
	Functionality expansion	
CFW500-ENC	Plug-in module with input for encoder	
CFW500-CUSB	Plug-in module with USB port	
	Communication on Fieldbus network	
CFW500-CCAN	Can communication plug-in module (CANopen/DeviceNet)	
CFW500-CRS232	RS232 communication plug-in module	
CFW500-CRS485	RS485 communication plug-in module	
CFW500-CPDP	Profibus-DP communication plug-in module	
CFW500-CETH-IP	Ethernet-IP communication plug-in module	
CFW500-CEMB-TCP	Ethernet Modbus-TCP communication plug-in module	
CFW500-CEPN-IO	Profinet IO communication plug-in module	

Note: 1) Accessory already included if the CFW500 version with the standard plug-in module is selected.
The plug-in modules can also be sold separately as an accessory item or spare part.

Configuration of the Plug-In Modules[1)]

Plug-in module	Functions															
	Inputs		Outputs			USB port	Input for Encoder[3)]	Fieldbus networks							Supply	
	Digital	Analog	Analog	Digital relay	Digital transistor			CANopen DeviceNet	RS232	RS485	Profibus-DP	Ethernet-IP	Ethernet Modbus-TCP	Profinet-IO	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[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-CCAN	2	1	1	1	1	-	-	1	-	1	-	-	-	-	1	-
CFW500-CRS232	2	1	1	1	1	-	-	-	1	1	-	-	-	-	-	1
CFW500-CRS485	4	2	1	2	1	-	-	-	-	2	-	-	-	-	1	1
CFW500-CPDP	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

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.
2) The digital inputs are 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

Specification

Optional Items
They are hardware resources added to the CFW500 in the manufacturing process, and they should be requested via smart code.

Internal Dynamic Braking (IGBT)
Used for quick stop of the motor with external braking resistor.
In order to add the internal dynamic braking (IGBT) to the CFW500, “DB” must be entered in item 8 of the smart code, only available for frame size B and biggers models, according to table 1 of page 10. External braking resistance not included.
For the calculation of the external braking resistance, refer to the CFW500 user manual.

NEMA1 Protection Degree
When selected, they provide NEMA1 protection rating for the CFW500.
In order to add NEMA1 protection degree to the CFW500, enter N1 in item 7 of the smart code.

Internal RFI Filter
The RFI filters installed on the CFW500 inverters are used to reduce the disturbance conducted from the inverter to the power line in the high frequency band (>150 kHz). It is necessary to comply with the maximum emission levels of the electromagnetic compatibility standards, such as EN 61800-3 and EN 55011.
In order to add an internal RFI filter to the CFW500, enter C2 or C3 in item 8 of the smart code. Check the available models on page 16.
For RFI filters installed externally, refer to the CFW500 user manual.

Special Hardware Versions
They add functionalities to the standard versions:

Plug-In Module
On the CFW500, it is possible to choose the model of the internal plug-in module by entering H00 in item 9 of the smart code. Note that in this case it is necessary to select the plug-in module according to the table on page 15.
In case H00 is not selected in item 9 of the smart code, the CFW500 will be supplied with the CFW500-IOS plug-in.

Protection for Aggressive Environments
The standard version of the CFW500 offers protection class 3C2, according to IEC 721-3-3, in which the internal circuit boards are coated, ensuring greater protection for applications in environments with corrosive chemicals such as hydrogen sulfide, sulfur dioxide, chlorine and others.
It is possible to request an extra coating on the internal circuit boards, Protection Class 3C3, according to IEC 721-3-3, by adding EC to item 9 of the smart code, ensuring even greater protection for applications in harsh corrosive environment.

Note: in order to select the CFW500 without plug-in module (H00) and with extra coating on the internal circuit boards (HEC), H00EC must be entered in item 9 of the smart code.

Specification

Accessories

The accessories are hardware resources that may be added to the CFW500 in the application, and they are available in the table below:

Reference	Description	Illustrative figures
	Memory	
CFW500-MMF	Flash memory module	
Interfaces		
CFW500-HMIR	Remote operating interface (HMI)	
CFW500-CCHMIR1M	1-meter cable set for remote operating interface (HMI)	
CFW500-CCHMIR2M	2-meter cable set for remote operating interface (HMI)	
CFW500-CCHMIR3M	3-meter cable set for remote operating interface (HMI)	
CFW500-CCHMIR5M	5-meter cable set for remote operating interface (HMI)	
CFW500-CCHMIR75M	7.5-meter cable set for remote operating interface (HMI)	
CFW500-CCHMIR10M	10-meter cable set for remote operating interface (HMI)	
Description		
CFW500-KN1A	NEMA 1 Kit - size A (standard for option N1)	
CFW500-KN1B	NEMA 1 Kit - size B (standard for option N1)	
CFW500-KN1C	NEMA 1 Kit - size C (standard for option N1)	
CFW500-KN1D	NEMA 1 Kit - size D (standard for option N1)	
CFW500-KN1E	NEMA 1 Kit - size E (standard for option N1)	
CFW500-KPCSA	Shielding kit for the power cables - size A (standard for option C2 and C3)	
CFW500-KPCSB	Shielding kit for the power cables - size B (standard for option C2 and C3)	
CFW500-KPCSC	Shielding kit for the power cables - size C (standard for option C2 and C3)	
CFW500-KPCSD	Shielding kit for the power cables - size D (standard for option C2 and C3)	
CFW500-KPCSE	Shielding kit for the power cables - size E (standard for option C2 and C3)	

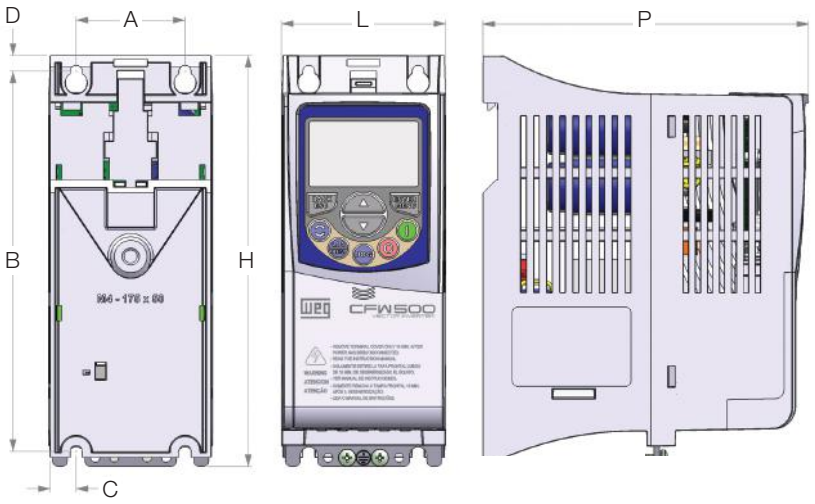
Specification

Protections

Recommended WEG fuse and switch-disconnector				Recommended WEG motor-protective circuit breaker[1]		CFW500 variable speed drive								
						Reference	Power supply (V)		Frame size	Internal dynamic braking (IGBT)	Rated output current (A)	Maximum applicable motor[2]		
												Power supply (V)	Motor rated power	
I^2t (A^2s)	Current (A)	Reference		Current (A)	Reference								HP	kW
		Fuse	Switch-disconnector											
373	20	FNH00-20K-A	FSW160-3	6.30	MPW18-3-D063	CFW500A01P6S2	Single-phase	200-240	A	N/A	1.60	220	0.25	0.18
373	20	FNH00-20K-A	FSW160-3	10.00	MPW18-3-U010	CFW500A02P6S2					2.60		0.50	0.37
373	25	FNH00-25K-A	FSW160-3	16.00	MPW18-3-U016	CFW500A04P3S2					4.30		1.00	0.75
800	40	FNH00-40K-A	FSW160-3	25.00	MPW40-3-U025	CFW500A07P0S2					7.00		2.00	1.50
450	40	FNH00-40K-A	FSW160-3	25.00	MPW40-3-U025	CFW500A07P3C2S2			B	Built-in	7.30		2.00	1.50
450	63	FNH1-63K-A	FSW250-3	32.00	MPW40-3-U032	CFW500A10P0C2S2					10.00		3.00	2.20
680	20	FNH00-20K-A	FSW160-3	6.30 / 2.5[3]	MPW18-3-D063 / MPW18-3-D025[3]	CFW500A01P6B2	Single-phase or three-phase	200-240	A	N/A	1.60		0.25	0.18
680	20	FNH00-20K-A	FSW160-3	4.00[3]	MPW18-3-U010 / MPW18-3-U004[3]	CFW500A02P6B2					2.60		0.50	0.37
680	25/20[3]	FNH00-25K-A / FNH00-20K-A[3]	FSW160-3	16.00 / 6.30[3]	MPW18-3-U016 / MPW18-3-D063[3]	CFW500A04P3B2					4.30		1.00	0.75
450	40/20[3]	FNH00-40K-A / FNH00-20K-A[3]	FSW160-3	25.00 / 16.00[3]	MPW40-3-U025 / MPW18-3-U016[3]	CFW500B07P3B2			B	Built-in	7.30		2.00	1.50
450	63/25[3]	FNH1-63K-A / FNH00-25K-A[3]	FSW250-3 / FSW160-3[3]	32.00 / 16.00[3]	MPW40-3-U032 / MPW18-3-U016[3]	CFW500B10P0B2					10.00		3.00	2.20
680	20	FNH00-20K-A	FSW160-3	10.00	MPW18-3-U010	CFW500A07P0T2	Three-phase	200-240	A	N/A	7.00		2.00	1.50
1,250	25	FNH00-25K-A	FSW160-3	16.00	MPW18-3-U016	CFW500A09P6T2					9.60		3.00	2.20
1,000	40	FNH00-40K-A	FSW160-3	25.00	MPW40-3-U025	CFW500B16P0T2			B	Built-in	16.00		5.00	3.70
1,000	63	FNH00-63K-A	FSW160-3	40.00	MPW40-3-U040	CFW500C24P0T2			C		24.00		7.50	5.50
2,750	63	FNH00-63K-A	FSW160-3	40.00	MPW65-3-U040	CFW500D28P0T2			D		28.00		10.00	7.50
2,750	80	FNH00-80K-A	FSW160-3	50.00	MPW65-3-U050	CFW500D33P0T2					33.00		12.50	9.20
2,750	100	FNH00-100K-A	FSW160-3	65.00	MPW80-3-U080	CFW500E56P0T2					47.00		15.00	11.00
6,600	125	FNH00-125K-A	FSW160-3	80.00	MPW65-3-U065	CFW500D47P0T2			E		56.00		20.00	15.00
450	20	FNH00-20K-A	FSW160-3	1.60	MPW18-3-D016	CFW500A01P0T4	Three-phase	380-480	A	N/A	1.00	380 or 440	0.25	0.18
450	20	FNH00-20K-A	FSW160-3	2.50	MPW18-3-D025	CFW500A01P6T4					1.60		0.50	0.37
450	20	FNH00-20K-A	FSW160-3	4.00	MPW18-3-U004	CFW500A02P6T4					2.60		1.50	1.10
450	20	FNH00-20K-A	FSW160-3	6.30	MPW18-3-D063	CFW500A04P3T4					4.30		2.00	1.50
450	20	FNH00-20K-A	FSW160-3	10.00	MPW18-3-U010	CFW500A06P1T4					6.10		3.00	2.20
450	20	FNH00-20K-A	FSW160-3	4.00	MPW18-3-U004	CFW500B02P6T4			B	Built-in	2.60		1.50	1.10
450	20	FNH00-20K-A	FSW160-3	6.30	MPW18-3-D063	CFW500B04P3T4					4.30		2.00	1.50
450	20	FNH00-20K-A	FSW160-3	10.00	MPW18-3-U010	CFW500B06P5T4					6.50		3.00	2.20
1,000	25	FNH00-25K-A	FSW160-3	16.00	MPW18-3-U016	CFW500B10P0T4					10.00		5.00	3.70
1,000	35	FNH00-35K-A	FSW160-3	20.00	MPW40-3-U020	CFW500C14P0T4			C		14.00		7.50	5.60
1,000	35	FNH00-35K-A	FSW160-3	25.00	MPW40-3-U025	CFW500C16P0T4					16.00		10.00	7.50
1,800	63	FNH00-63K-A	FSW160-3	40.00	MPW65-3-U040	CFW500D24P0T4			D		24.00		15.00	11.00
1,800	63	FNH00-63K-A	FSW160-3	50.00	MPW65-3-U050	CFW500D31P0T4					31.00		20.00	15.00
2,100	80	FNH00-80K-A	FSW160-3	50.00	MPW65-3-U050	CFW500E39P0T4			E		39.00		25.00	18.50
13,000	100	FNH00-100K-A	FSW160-3	55.00	MPW65-3-U065	CFW500E49P0T4					49.00		30.00	22.00
495	20	FNH00-20K-A	FSW160-3	2.50	MPW18-3-U025	CFW500C01P7T5		500-600	C		1.70	600	1.00	0.75
495	20	FNH00-20K-A	FSW160-3	4.00	MPW18-3-U004	CFW500C03P0T5					3.00		2.00	1.50
495	20	FNH00-20K-A	FSW160-3	6.30	MPW18-3-U063	CFW500C04P3T5					4.30		3.00	2.20
495	20	FNH00-20K-A	FSW160-3	10.00	MPW18-3-U010	CFW500C07P0T5					7.00		5.00	3.70
495	25	FNH00-25K-A	FSW160-3	16.00	MPW18-3-U016	CFW500C10P0T5					10.00		7.00	5.50
495	25	FNH00-25K-A	FSW160-3	16.00	MPW18-3-U016	CFW500C12P0T5					12.00		10.00	7.50

Notes: 1) Protection of the electrical circuit only. In order to protect the VSDs, use the recommended ultra-fast fuses.
2) Motor powers are reference values, valid for WEG 4-pole standard motors, frequency of 60 Hz, voltage of 220, 380, 440 or 600 V. The proper size must be always determined according to the rated current of the motor used, which must be lower than or equal to the VSD rated output current.
3) The first value refers to the single-phase power supply and the second value to the three-phase power supply.
4) Designed for exclusive industrial or professional use.
N/A = Non-applicable.

Sizes



View of the mounting base *Front view* *Side view*

Size	A	B	C	D	H	L	P	Weight
	mm	mm	mm	mm	mm	mm	mm	kg
A	50.0	175.0	11.9	7.2	189.0	75.0	150.0	0.8
B	75.0	185.0	11.8	7.3	199.0	100.0	160.0	1.2
C	100.0	195.0	16.7	5.8	210.0	135.0	165.0	2.0
D	125.0	290.0	27.5	10.2	306.6	180.0	166.5	4.3
E	150.0	330.0	34.0	10.6	350.0	220.0	191.5	10.0

Note: for the dimensions in the NEMA version, refer to the user manual.

Codes and Standards

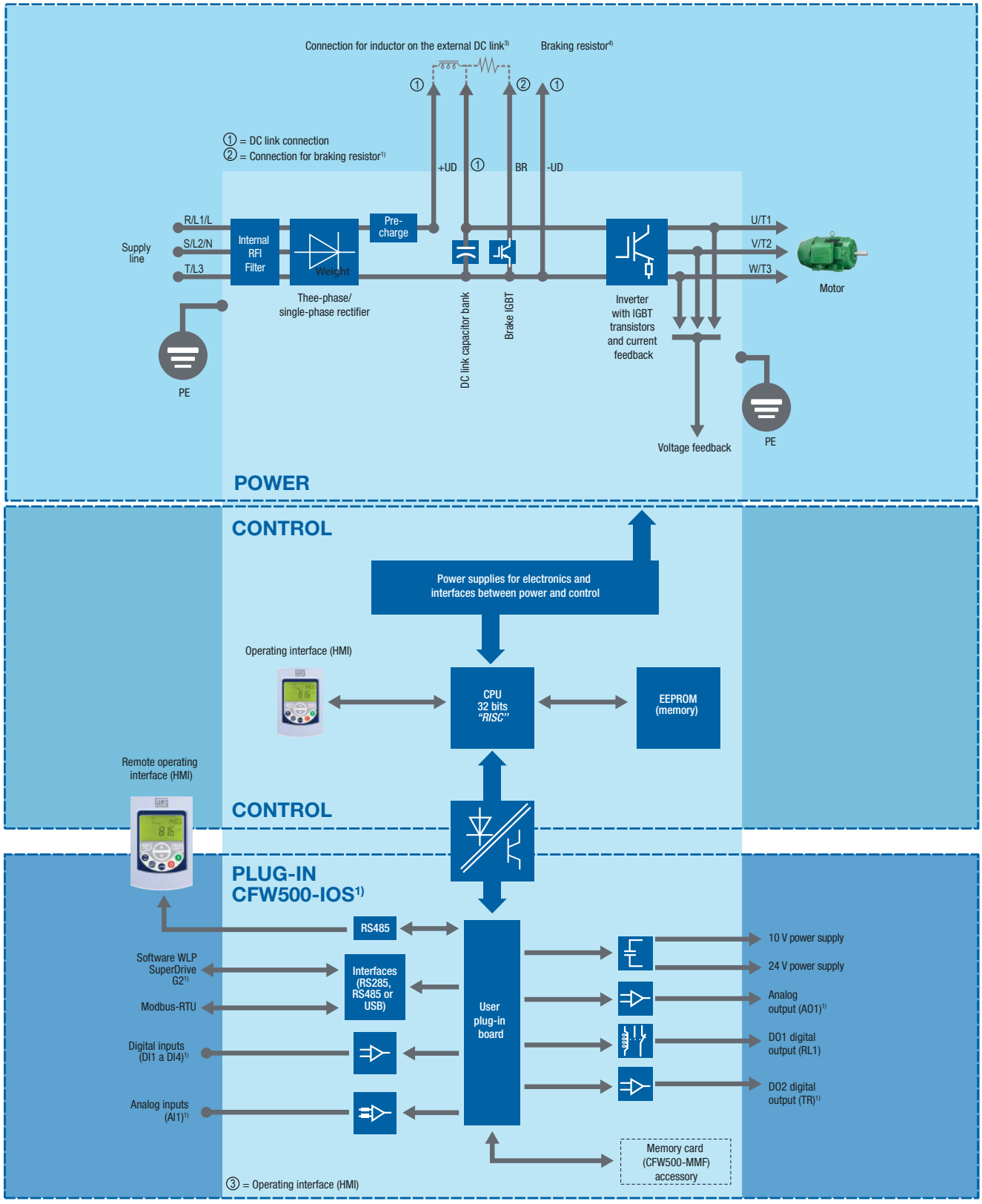
Standards	Safety standards	UL 508C - Power conversion equipment
		UL 840 - Insulation coordination including clearances and creepage distances for electrical equipment
		EN 61800-5-1 - Safety requirements electrical, thermal and energy
		EN 50178 - Electronic equipment for use in power installations
		EN 60204-1 - Safety of machinery. Electrical equipment of machines. Part 1: general requirements 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 disconnection from 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
	Electromagnetic compatibility 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 characteristcs 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: 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 construction standards	EN 60529 - Degrees of protection provided by enclosures (IP code)
		UL 50 - Enclosures for electrical equipment

Technical Specifications

Power rating	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
		Transient voltages and overvoltages according to Category III (EN 61010/UL 508C)
		Maximum of 10 (line) connections per hour (1 every 6 minutes)
		Typical efficiency: ≥97%
Control	Method	V/F (scalar) VVW: voltage vector control Vector without encoder (sensorless) and vector with encoder PWM SVM (space vector modulation)
	Output frequency	0 to 500 Hz, resolution of 0.015 Hz
Performance	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
	Sensorless	Speed regulation: 0.5% of the rated speed Speed variation range: 1:100
	Vector control with Encoder	Speed regulation: ±0.01% of the rated speed Speed variation range: 1:100
Environment conditions	Temperature around the CFW500	0 °C to 40 °C - NEMA1 0 °C to 40 °C - IP20 side by side and / or with RFI filter 0 °C to 50 °C - IP20 without RFI filter For temperatures above the specification, it is necessary to apply a 2% of current derating for each degree Celsius (ºC), limited to an increase of 10 ºC
	Aggressive environments	Protection Class 3C2 - Standard coating on the internal circuits, according to IEC 721-3-3 (standard model)
		Protection Class 3C3 - Extra coating - optional, according to IEC 721-3-3 (optional)
	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
	Pollution degree	2 (EN 50178 and UL 508C), with non-conductive pollution Condensation must not cause conduction of the accumulated residues
Inputs[1)]	Analog	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 Maximum voltage accepted in the inputs: 30 V dc
	Digital	4 isolated inputs Programmable functions: Active high (PNP): maximum low level of 15 V dc; minimum high level of 20 V dc Active low (NPN): maximum low level of 5 V dc; minimum high level of 9 V dc Maximum input voltage of 30 V dc Input current: 4.5 mA Maximum input current: 5.5 mA
Outputs[1)]	Analog	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)
	Relay	1 relay with NO/NC contact Maximum voltage: 240 V ac Maximum current of 0.5 A Programmable functions
	Transistor	1 isolated open sink digital output (using as reference the 24 V dc power supply) Maximum current of 150 mA (maximum capacity of the 24 V dc power supply)[2)] Programmable functions
	Power supply	24 V dc power supply. Maximum capacity: 150 mA[2)] Power supply of 10 V dc. Maximum capacity: 2 mA
Communication	Selectable plug-in	Fieldbus: CANopen, DeviceNet, Profibus-DP, Ethernet-IP, Ethernet-Modbus, Profinet-I/O USB, RS485 and RS232 ports
Safety	Protection	Phase-phase overcurrent/short circuit in the output Phase-ground overcurrent/short circuit in the output Undervoltage/overvoltage in the power Overtemperature of the heatsink Motor overload Overload on the power module (IGBTs) External fault / alarm Programming error
Operating interface (HMI)	Standard (built in the CFW500)	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 Accuracy of the indications: Current: 5% of the rated current Speed resolution: 0.1 Hz
Protection degree	IP20	Sizes A, B, C, D and E
	NEMA1/IP20	Sizes A, B, C, D and E with NEMA1 kit

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

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, refer to the CFW500 user manual.
2) Not available for size A.
3) Available for sizes D and E only. Inductor on the DC link not included.
4) Resistor not included. Internal dynamic braking (IGBT) built-in on sizes B, C, D and E.

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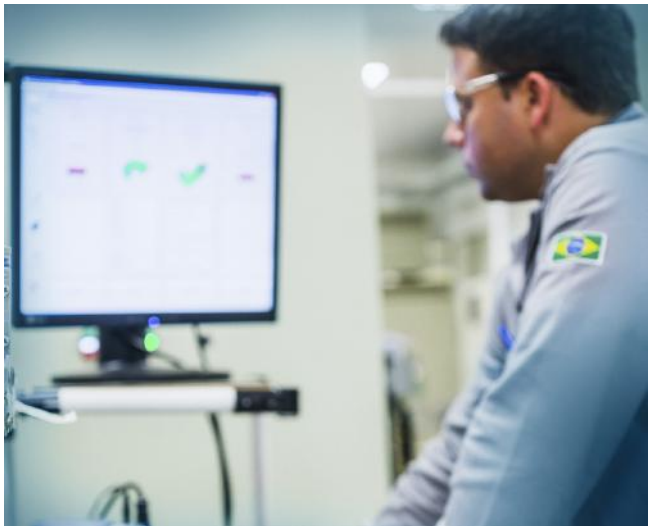

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