

# WEG CFW100 Generation 2 Series AC Drives



WEG CFW100 Series AC Drives				
Motor Rating	hp	0.25	0.50	1
	kW	0.18	0.37	0.75
115VAC Single-Phase Input 230VAC Three-Phase Output		✓	✓	
230VAC Single-Phase Input 230VAC Three-Phase Output		✓	✓	✓



## WEG CFW100 Overview

The new generation of WEG CFW100 variable frequency drives – the smallest full featured VFDs on the market – offer impressive functions and features that provide energy cost savings and fast operating response while helping to prevent possible breakdowns or involuntary stoppages.

The CFW100 is a single-phase input, three phase output variable frequency drive (VFD) developed for simple applications ranging from 1/4 to 1hp (0.18 to 0.75 kW). It gives induction motors a selectable scalar (V/F) or voltage vector (VWV) control. Designed with HMI and plug-and-play in mind, the CFW100 opens the door for fast, easy installation and operation.

With its built-in PLC, the CFW100 enables the VFD, motor and application to work interactively. Users can easily implement customized logic for any application.

A number of easily installed accessories for network communication and I/O expansion are available for the CFW100. These make it easy to adapt the CFW100 to a wide range of different applications.

Of special interest to machine manufacturers is the flash memory module which allows you to copy the settings from one CFW100 and download them to others in seconds, even with the inverters turned off.

### WEG CFW100 Hardware and Firmware Enhancements

The new generation WEG CFW100 variable speed drives feature hardware and firmware enhancements over the first generation of this line. These include the following:

- A new plug-in module with potentiometer (exclusive for the G2)
- PID control function
- Fire mode function
- Modbus master function
- Energy saving function
- Compatibility with WPS software
- New color for the HMI membrane
- Maintains same dimensions and electrical connections as the first generation
- Compatible with all Generation 1 accessories

### Features

- Output current 1.6 A, 2.6 A and 4.2 A (0.25; 0.5 and 1hp)
- Single-phase power supply (110/230 VAC)
- Operates in 50°C [122°F] ambient temperature without derating
- Withstands 150% overload for one minute every 10 minutes at an ambient temperature of 50°C [122°F].
- Vector (VWV) or Scalar (V/F) control
- Plug-and-play functionality
- Built-in operating interface (HMI)
- Digital inputs
- Surface mounting (with PLMP accessory) or DIN rail mounting
- Degree of protection IP20

- Removable external fan (for Frames B and C)
- Fault or alarm diagnosis
- Electronic protection against motor overload
- Free software (WPS)
- Standard coating classified as 3C2 according to IEC 60721-3-3 on all versions for greater protection of the internal circuitry in harsh environments.

### Connectivity (WPS)

- Free application software to program, control and monitor the CFW100
- Monitoring of operation status in lists, which can be saved as a computer file
- On-line parameter operation
- Transfer of parameters from a PC to the CFW100
- Off-line edition of parameters stored on the PC

### Accessories

- RS-485 serial communication module (Modbus RTU)
- USB communication module
- I/O expansion modules including 1AI/1AO and 1AI/1RO
- Input expansion module (4 isolated [configurable] NPN or PNP digital inputs)
- Infrared remote control module
- Potentiometer module
- Flash memory module
- HMI (remote)

### Typical Applications

- Blenders / Mixers
- Granulators / Palletizers
- Rotary filters
- Roller tables
- Centrifugal pumps
- Process dosing pumps
- Fans / Exhaust systems
- Dryers
- Centrifuges
- Commercial Dryers
- Compressors
- Conveyors

## Purpose of AC Drives

AC drives are known by many different names: AC Drives, Adjustable Frequency Drives (AFDs), Variable Frequency Drives (VFDs), and Inverters. Drives are used primarily to vary the speed of three-phase AC induction motors. They also provide non-emergency start and stop control, acceleration and deceleration, and overload protection. By gradually accelerating the motor, drives can reduce inrush current during motor startup.

AC drives operate by rectifying incoming AC power to DC, which is then converted back into three-phase output power. The voltage and frequency of this converted output power is controlled by the drive in order to vary the speed of the three-phase AC induction motor.

# WEG CFW100 AC Drives – Selection Specifications

## CFW100 Drive Model Selection Tables



WEG CFW100 AC Drives Selection Specifications													
Drive Model #	Price	Applicable Motor <sup>1, 2</sup>			Drive Output		Drive Input		Input Protection		Drive		
		Maximum Power		Nominal Phase / Voltage (VAC)	Rated Current <sup>3</sup> (A)	Nominal Phase / Voltage (VAC)	Nominal Phase / Voltage (VAC)	Rated Current (A)	Circuit Breaker (A)	Fuse <sup>4</sup> (A)	Power Loss (W)	Weight lb [kg]	Frame Size
		(hp)	(kW)										
<a href="#"><u>CFW100A01P6S120G2</u></a>	\$150.00	0.25	0.18	3 / 230	1.6	3 / 230	1 / 115	7.1	10	20	20	1.05 [0.48]	A
<a href="#"><u>CFW100B02P6S120G2</u></a>	\$164.00	0.50	0.37	3 / 230	2.6	3 / 230	1 / 115	11.5	16	20	30	1.25 [0.57]	B
<a href="#"><u>CFW100A01P6S220G2</u></a>	\$134.00	0.25	0.18	3 / 230	1.6	3 / 230	1 / 230	3.5	6.3	20	20	1.05 [0.48]	A
<a href="#"><u>CFW100B02P6S220G2</u></a>	\$145.00	0.50	0.37	3 / 230	2.6	3 / 230	1 / 230	5.7	10	20	30	1.25 [0.57]	B
<a href="#"><u>CFW100C04P2S220G2</u></a>	\$154.00	1	0.75	3 / 230	4.2	3 / 230	1 / 230	9.2	16	20	40	1.34 [0.61]	C

1) For use with three-phase motors only.

2) The power values for the maximum applicable motor shown are reference values and are valid for WEG three-phase, four-pole induction motors with power supply of 230VAC. The proper sizing of the CFW100 drive must be determined as a function of the rated current of the motor being used.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.

4) For UL508C compliance, use UL fuse type J. Type J provides 30kA high fault SCCR rating.

# WEG CFW100 AC Drives – General

<b>CFW100 General Specifications (Applicable to All Models)</b>		
<b>Control</b>	<b>Method</b>	Scalar (V/F) or voltage vector (VFW) control modes
	<b>Output Frequency Range</b>	0 to 400 Hz, control of 0.1 Hz
<b>Performance</b>	<b>V/Hz Control</b>	Speed regulation: 1% of the rated speed (with slip compensation) Speed variation range: 1:20
	<b>VFW Control</b>	Speed control: 1% of the rated speed Speed variation range: 1:30
<b>Inputs</b>	<b>Analog</b>	Optional CFW100-IOAR (0-10 V or 0-20 mA or 4-20 mA. Maximum 30VDC)
	<b>Digital</b>	4 digital inputs included (NPN or PNP). Optional CFW-IOD module provides additional 4 isolated NPN or PNP digital inputs.
<b>Outputs</b>	<b>Relay</b>	Optional CFW100-IOAR, 1 relay with NO contact
	<b>Power Supply</b>	Maximum 240VAC Maximum current 0.5 A. Minimum current >1 uA
<b>Safety</b>	<b>Protection</b>	Overcurrent/phase-phase short circuit in the output Overcurrent/phase-ground short circuit in the output Under/overvoltage Heatsink overheating Motor overload Power module (IGBTs) overload External fault/alarm Configuration error
<b>Keypad</b>	<b>Integral (HMI)</b>	3 digit LCD display and 4 keys. Indication accuracy, current: 10% of rated current. Indication accuracy, speed resolution: 0.1 Hz.
<b>Rated/Default Carrier Frequency</b>		Standard 5kHz (selectable 2.5 to 15kHz)
<b>Input Voltage Range</b>		Applicable to 2 models (110-127 VAC): -15% to +10%. Applicable to 3 models (200VAC to 240VAC): -15% to +10%.
<b>Input Frequency Range</b>		50/60Hz (48 to 62 Hz)
<b>Allowable Input Phase Imbalance</b>		Phase imbalance: ≤ 3% of the rated phase-to-phase input voltage
<b>Overload Capacity</b>		150% overload for 1 minute every 10 minutes at an ambient temperature of 50°C [122°F]
<b>Braking</b>		N/A
<b>Ambient Operating Temperature</b>		0°C-50°C [32°F-122°F]; up to 60°C [140°F] with current derating (2% per 1°C above 50°C [122°F], limited to 60°C [140°F])
<b>Altitude</b>		0-3300ft (1000m); up to 13,200ft (4000m) with current derating (1% per 100m above 1000m); From 2000-4000m (6560ft-13123ft) above sea level, maximum voltage reduction of 1.1% for each 100m above 2000m
<b>Humidity</b>		5 to 95% non-condensing
<b>Mounting</b>		DIN rail or surface mounting with screws (PLMP adapter required for screw mounting)
<b>Mounting Orientation</b>		Vertical, to provide for proper cooling
<b>Environmental Protection Rating</b>		IP20
<b>Agency Approvals *</b>		UL 508C, UL 840, UL 50, EN61800-5-1, EN 50178, EN 60204-1, EN 60146 (IEC 146), EN 61800-2, EN 60529

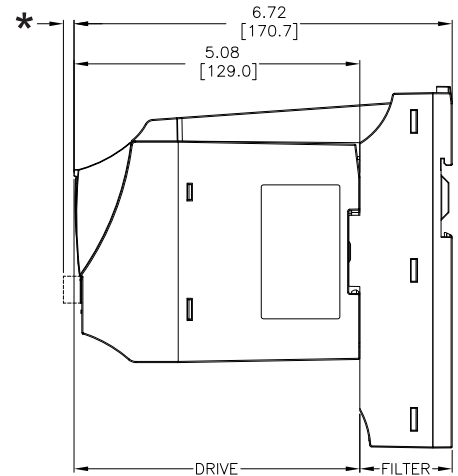
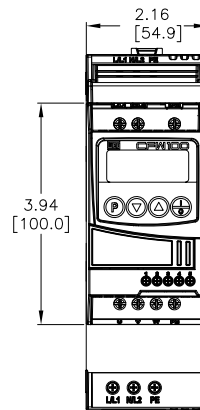
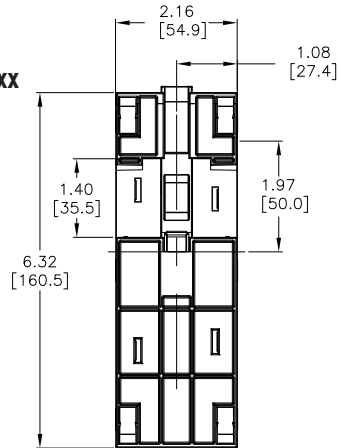
\* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

# WEG CFW100 AC Drives – Dimensions

## Dimensions With Filter

In [mm]

CFW100Axxxxxxxxxx



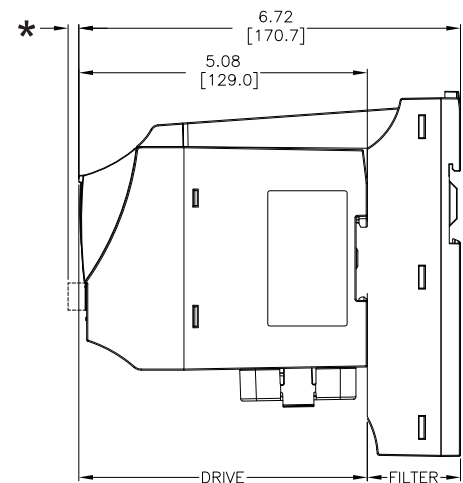
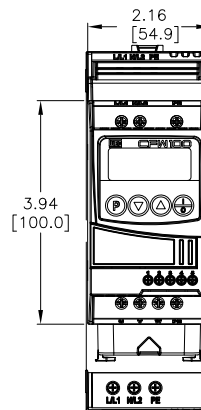
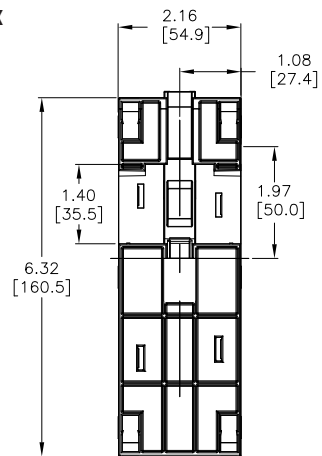
\* Optional modules add depth to dimension as follows:

CFW100-IOP adds 17mm [0.67 in]

CFW100-CRS-485, -IOAR, -IOA, and -IOD add 14mm [0.55 in]

CFW100-CUSB and -IOADR add 13mm [0.51 in]

CFW100Bxxxxxxxxxx



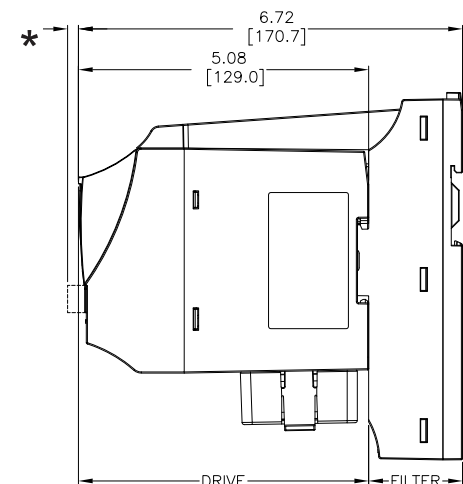
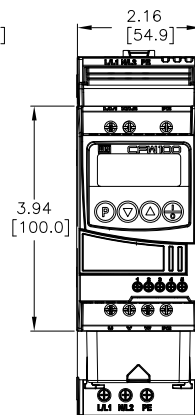
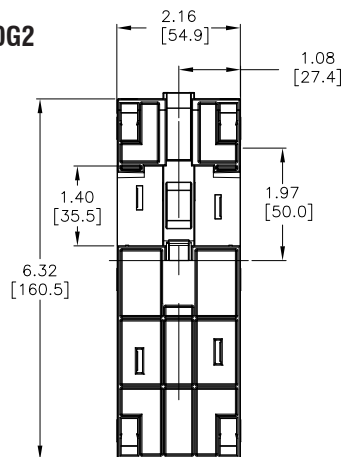
\* Optional modules add depth to dimension as follows:

CFW100-IOP adds 17mm [0.67 in]

CFW100-CRS-485, -IOAR, -IOA, and -IOD add 14mm [0.55 in]

CFW100-CUSB and -IOADR add 13mm [0.51 in]

CFW100C04P2S220G2



\* Optional modules add depth to dimension as follows:

CFW100-IOP adds 17mm [0.67 in]

CFW100-CRS-485, -IOAR, -IOA, and -IOD add 14mm [0.55 in]

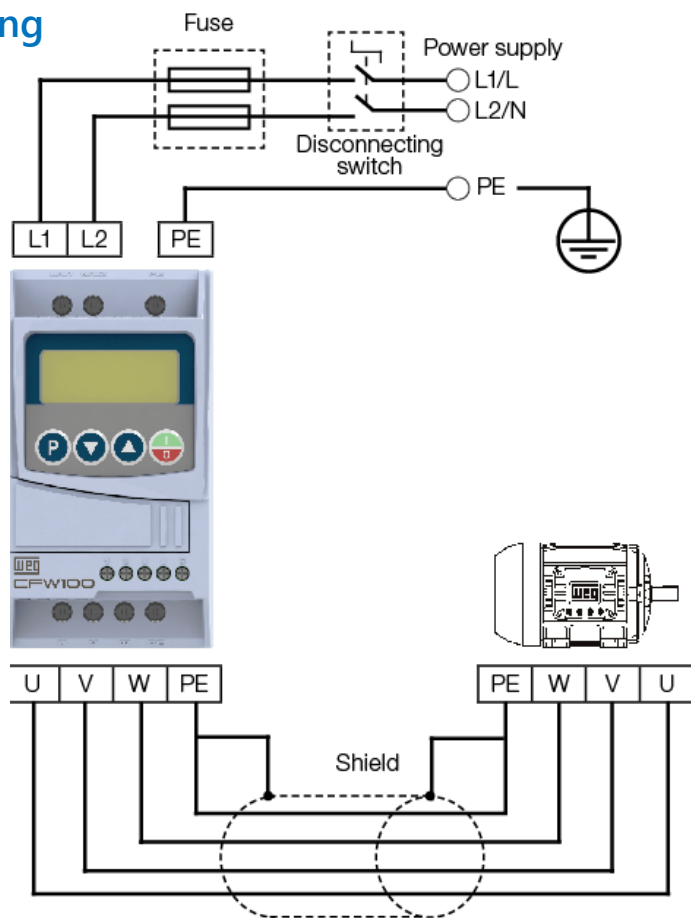
CFW100-CUSB and -IOADR add 13mm [0.51 in]

See our website ([www.AutomationDirect.com](http://www.AutomationDirect.com)) for complete engineering drawings.

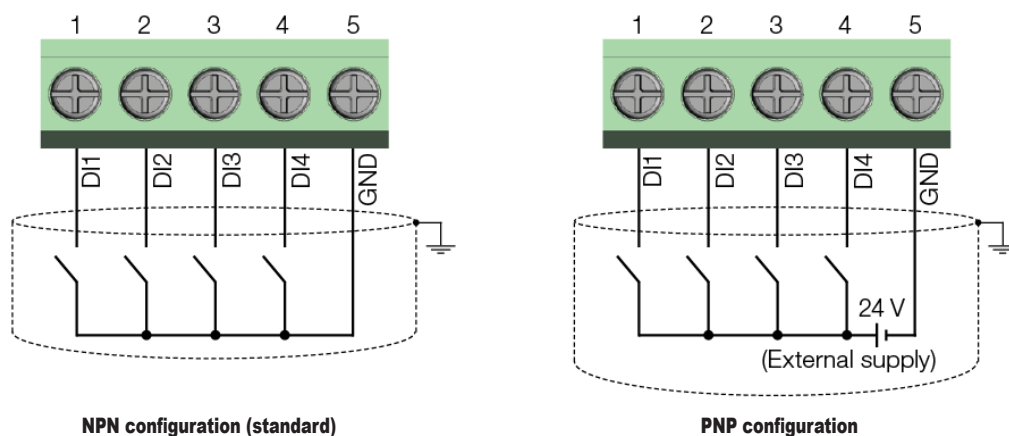


# WEG CFW100 AC Drives

## Power and Grounding Connections



## Installation and Connection



NPN configuration (standard)

PNP configuration

Connector		Description
1	D11	Digital Input 1
2	D12	Digital Input 2
3	D13	Digital Input 3
4	D14	Digital Input 4
5	GND	Reference 0V

For further information, please reference additional diagrams available in the CFW100 User Manual.

# WEG CFW100 AC Drives – Accessories

## Hardware resources that can be added to the CFW100

WEG CFW100 AC Drives Accessories			
Model #	Price	Description	Use With Drive #CFW...
<a href="#"><u>CFW100-CRS485</u></a>	\$40.00	RS485 communication module, with Modbus Master function	CFW-100
<a href="#"><u>CFW100-CUSB</u></a>	\$42.50	USB communication module with 2m (6.56 ft) cable	CFW-100
<a href="#"><u>CFW100-IOP</u></a>	\$44.50	Potentiometer plug-in module	CFW-100
<a href="#"><u>CFW100-IOA</u></a>	\$48.50	I/O expansion module with 1 analog input and 1 analog output	CFW-100
<a href="#"><u>CFW100-IOADR</u></a>	\$101.00	I/O expansion and infrared remote control module <sup>1</sup>	CFW-100
<a href="#"><u>CFW100-IOAR</u></a>	\$39.50	I/O expansion module with 1 analog input and 1 relay output	CFW-100
<a href="#"><u>CFW100-IOD</u></a>	\$40.00	I/O expansion module with 4 isolated (configurable) NPN or PNP digital inputs	CFW-100
<a href="#"><u>CFW100-KHMIR</u></a>	\$125.00	CFW100 remote interface kit (CFW100-CRS485 with 1m (3.28 ft) cable included)	CFW-100
<a href="#"><u>CFW100-KFABC-S1</u></a>	\$62.00	Footprint <sup>2</sup> radio frequency kit, category C2, for frames A, B or C (120V)	CFW-100 (120G2 models only)
<a href="#"><u>CFW100-KFABC-S2</u></a>	\$44.50	Footprint <sup>2</sup> radio frequency kit, category C2, for frames A, B or C (220V)	CFW-100 (220G2 models only)
<a href="#"><u>PLMP</u></a>	\$1.00	Adapter kit for surface mounting, fastening with screws, set with two units	CFW-100

### NOTES:

1) I/O expansion and infrared remote control module contains 1 NTC sensor with a 1m (3.28 ft) cable, 1 infrared (IR) remote control, 1 infrared receiver cable with a 1.5 m (4.92 ft) cable, 1 NTC sensor input, 1 analog current input (0-10 mA or 2-20 mA), 1 analog voltage input (0-10 VDC), and 3 NO digital outputs (240 VAC).

2) The footprint radio frequency filter is an external accessory on whose surface the VFD is mounted. The electrical connection between the filter and the CFW100 is made through the coupling guide that accompanies the filter. After being mounted on the filter surface, the set can be fastened to a DIN rail or mounted to a panel with screws. For mounting with screws, the PLMP Adapter Kit accessory is required. For further information refer to Chapter 7 of the user's manual; access the manual and accessories through [www.automationdirect.com](http://www.automationdirect.com).



[CFW100-CRS485](#)



[CFW100-CUSB](#)



[CFW100-IOP](#)



[CFW100-IOA](#)



[CFW100-IOAR](#)



[CFW100-IOD](#)



[CFW100-KFABC-S2](#)



[CFW100-KFABC-S1](#)



[PLMP](#)



[CFW100-IOADR](#)



[CFW100-KHMIR](#)



WEG AC Drives

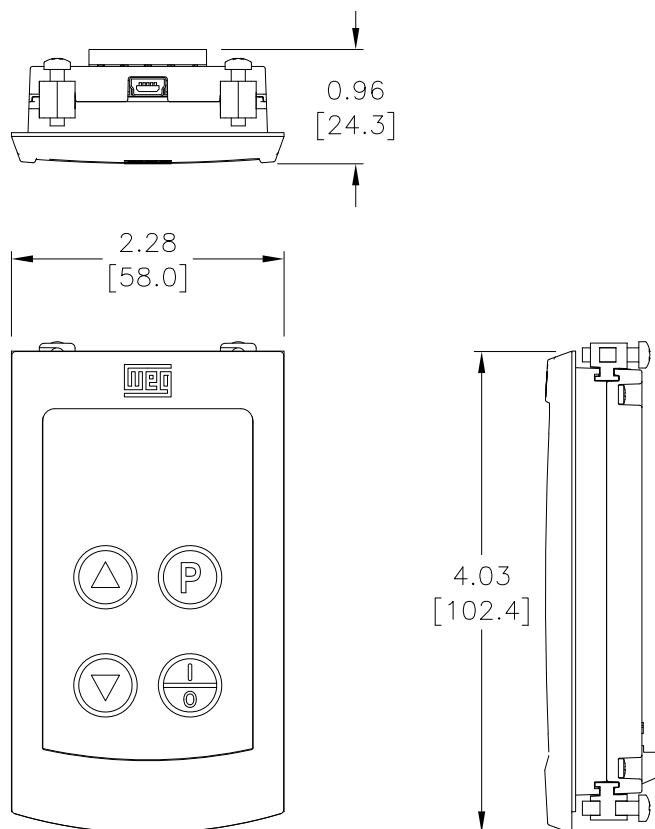


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# WEG CFW100 AC Drives Accessories – Dimensions

## Dimensions

mm [ in ]

**CFW100-KHMIR**

## General Accessories Recommended for WEG CFW100 AC Drives

General Accessories Recommended for WEG CFW100 AC Drives						
AC Drive Part #	Power		Input Ø/V	Line Reactor*	Load Reactor*	Output Filter**
	hp	kW		1-Phase	3-Phase	3-Phase
<a href="#">CFW100A01P6S120G2</a>	0.25	0.18	1Ø 115VAC	<a href="#">LR2-10P2-1PH</a>	<a href="#">LR2-20P5</a>	<a href="#">VTF-46-DE</a>
<a href="#">CFW100B02P6S120G2</a>	0.50	0.37		<a href="#">LR2-10P5-1PH</a>	<a href="#">LR2-21P0</a>	<a href="#">VTF-246-CFG</a>
<a href="#">CFW100A01P6S220G2</a>	0.25	0.18	1Ø 230VAC	<a href="#">LR2-20P2-1PH</a>	<a href="#">LR2-20P5</a>	<a href="#">VTF-46-DE</a>
<a href="#">CFW100B02P6S220G2</a>	0.50	0.37		<a href="#">LR2-20P2-1PH</a>	<a href="#">LR2-20P7</a>	<a href="#">VTF-246-CFG</a>
<a href="#">CFW100C04P2S220G2</a>	1	0.75		<a href="#">LR2-21P0-1PH</a>	<a href="#">LR2-21P0</a>	<a href="#">VTF-24-FH</a>

\* For Line Reactor technical information, please refer to "LR(2) Series Line Reactors" on page tDGA-1.

\*\* For Drive Output Filter technical information, please refer to "Drive Output Filters – VTF Series – for Multiple AC Drives" on page tDGA-18.

# WEG CFW300 Series AC Drives – Introduction



WEG CFW300 Series AC Drives								
Motor Rating	hp	0.25	0.5	1	1.5	2	3	5
	kW	0.2	0.4	0.75	1.3	1.5	2.2	3.7
115V Single-Phase Input / 230V Three-Phase Output		✓	✓	✓	✓			
230V Single-Phase Input / 230V Three-Phase Output		✓	✓	✓	✓	✓	✓	
230V Three-Phase Input / 230V Three-Phase Output		✓	✓	✓	✓	✓	✓	✓

## Purpose of AC Drives

AC drives are known by many different names: AC Drives, Adjustable Frequency Drives (AFDs), Variable Frequency Drives (VFDs), and Inverters. Drives are used primarily to vary the speed of three phase AC induction motors. They also provide non-emergency start and stop control, acceleration and deceleration, and overload protection. By gradually accelerating the motor, drives can reduce inrush current during motor startup.

AC drives operate by rectifying incoming AC power to DC, which is then inverted back into three-phase output power. The voltage and frequency of this inverted output power is controlled by the drive, in order to vary the speed of the three phase AC induction motor.

## WEG CFW300 Overview

WEG CFW300 variable frequency drives are high-performance VFDs for three-phase induction motors. They are ideal for applications on machines or equipment that require precise variable-speed control with easy setup and operation.

The CFW300 series features compact size with contactor-style electrical connections (top in / bottom out). The CFW300's performance can be scaled to match the application by selecting WEG vector control (VWV) or scalar control (V/F).

CFW300s include built-in operator

interface (HMI) and SoftPLC with free WPS programming software for custom-tailored control schemes. A variety of plug-in option modules for additional I/O and communications protocols may be added to provide extended capabilities, making the CFW300 a flexible and cost effective solution for your variable-speed requirements.

## Features

- Single-phase and three-phase voltage supply
- DIN rail (35mm) or surface mounting with screws
- Side-by-side mounting; no heat dissipation space required beside/between the drives
- Voltage range:
  - 1-phase models: 110–127 VAC & 200–240 VAC
  - 3-phase models: 200–240 VAC
- Current/Power range: up to 15.2A/3.7kW (5hp)
- Control mode: Scalar (V/Hz) or Voltage Vector (VWV)
- Switching frequency: 2.5, 5, 10, or 15kHz
- Output frequency range: 0–400 Hz; 0.1Hz resolution
- Overload capacity: 150% for 60sec every 10min; 200% for 3 sec every 10min
- Degree of protection: IP20
- Operating temperature: 14 to 122°F (50°C); up to 140°F (60°C) with current derating (2% per 1°C above 50°C)
- Altitude: 0 to 3300ft (1000m); up to 13,200 ft (4000m) with current derating (1% per 100m above 1000m)

- Humidity: 5 to 95% non-condensing
- Integrated brake chopper for frame size B (not available for size A)
- Local keypad supplied as standard
- cULus, CE

## Accessories

- Remote keypad with mounting kit and cable
- RS-232 serial communication module (Modbus RTU)
- RS-485 serial communication module (Modbus RTU)
- USB communication module and cable
- IODR expansion module – Insulated inputs (NPN or PNP)
- IOAR expansion module (1AI, 1AO, and 3RO)
- IOADR expansion module (1 PTC, 3RO, and 1 infrared input)
- Incremental encoder module (A/A - B/B)
- Flash memory module and cable
- RFI Filter

## Typical Applications

- Blenders / Mixers
- Centrifugal pumps
- Centrifuges
- Commercial Dryers
- Compressors
- Conveyors
- Fans / Blowers
- Granulators
- Roller Tables
- Rotary Filters

# WEG CFW300 AC Drives – Selection Specifications

## CFW300 Drive Model Selection Tables

CFW300A (Frame Size A)

CFW300B (Frame Size B)

Modular design with easy-to-install accessories



**Zero-Stack Mounting**  
(no side-to-side heat dissipation space required)



WEG CFW300 AC Drives Selection Specifications													
Drive Model #	Price	Applicable Motor <sup>1) 2)</sup>		Drive Output		Drive Input		Input Protection		Drive			
		Maximum Power		Nominal Phase / Voltage	Rated Current <sup>3)</sup> (A)	Nominal Phase / Voltage	Nominal Phase / Voltage	Rated Current (A)	Circuit Breaker (A)	Fuse <sup>4)</sup> (A)	Power Loss (W)	Weight	Frame Size
		(hp)	(kW)										
<a href="#">CFW300A01P6S1NB20</a>	\$126.00	0.25	0.18	3Ø / 230VAC	1.6	3Ø / 230VAC	1Ø / 115VAC	7.1	10	20	30	0.90 kg [1.98 lb]	A
<a href="#">CFW300A02P6S1NB20</a>	\$138.00	0.50	0.37		2.6			11.5	16	20	45		
<a href="#">CFW300A04P2S1NB20</a>	\$147.00	1.00	0.75		4.2			17.7	20	35	60		
<a href="#">CFW300A06P0S1NB20</a>	\$177.00	1.50	1.32		6.0			26.5	32	40	75		
<a href="#">CFW300A01P6S2NB20</a>	\$113.00	0.25	0.18		1.6		3.5	6.3	20	30			
<a href="#">CFW300A02P6S2NB20</a>	\$122.00	0.50	0.37		2.6		5.7	10	20	35			
<a href="#">CFW300A04P2S2NB20</a>	\$131.00	1.00	0.75		4.2		9.2	16	20	50			
<a href="#">CFW300A06P0S2NB20</a>	\$161.00	1.50	1.32		6.0		13.2	16	20	75			
<a href="#">CFW300A07P3S2NB20</a>	\$189.00	2.00	1.50		7.3		16.1	20	25	90			
<a href="#">CFW300B10P0B2DB20 <sup>5)</sup></a>	\$226.00	3.00	2.20		10.0		22.0	25	35	100	1.34 kg [2.95 lb]	B	
<a href="#">CFW300A01P6T2NB20</a>	\$120.00	0.25	0.18		1.6		2.0	2.5	20	30	0.90 kg [1.98 lb]	A	
<a href="#">CFW300A02P6T2NB20</a>	\$131.00	0.50	0.37		2.6		3.1	6.3	20	35			
<a href="#">CFW300A04P2T2NB20</a>	\$139.00	1.00	0.75		4.2		5.0	10	20	50			
<a href="#">CFW300A06P0T2NB20</a>	\$169.00	1.50	1.32		6.0		7.2	10	20	75			
<a href="#">CFW300A07P3T2NB20</a>	\$199.00	2.00	1.50		7.3		8.8	16	20	90	1.34 kg [2.95 lb]	B	
<a href="#">CFW300B10P0B2DB20 <sup>5)</sup></a>	\$226.00	3.00	2.20		10.0		12.0	25	35	100			
<a href="#">CFW300B15P2T2DB20</a>	\$276.00	5.00	3.70		15.2		18.2	25	35	160			

1) For Use With Three-Phase Motors Only.

2) The power values for the maximum applicable motor shown are reference values and are valid for WEG three-phase, four-pole induction motors with power supply of 230VAC. The proper sizing of the CFW300 drive must be determined as a function of the rated current of the motor being used.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.

4) For UL508C compliance, use UL fuse type J.

5) Model CFW300B10P0B2DB20 is capable of Single-Phase input without derating.



# WEG CFW300 AC Drives – General Specifications

CFW300 General Specifications (Applicable to All Models)		
<b>Control</b>	<b>Method</b>	scalar (V/Hz) or voltage vector (VVV)
	<b>Output Frequency Range</b>	0–400 Hz; 0.1Hz resolution
<b>Performance</b>	<b>V/Hz Control</b>	Speed regulation: 1% of the rated speed (with slip compensation) Speed variation range: 1:20
	<b>VVV Control</b>	Speed regulation: 1% of the rated speed Speed variation range: 1:30
<b>Inputs</b>	<b>Analog</b>	1 insulated input; Levels: 0–10V or 0–20mA or 4–20mA Linearity error ≤ 0.25% Impedance: 100kΩ for voltage input; 500Ω for current input Programmable functions Maximum voltage permitted in the input: 30VDC
	<b>Digital</b>	4 isolated inputs Programmable functions • active high (PNP): maximum low level of 10VDC minimum high level of 20VDC • active low (NPN): maximum low level of 5VDC minimum high level of 10VDC Maximum input voltage of 30VDC Input current: 11mA Maximum input current: 20mA
<b>Outputs</b>	<b>Relay</b>	1 relay with NO/NC contact Maximum voltage: 250VAC Maximum current: 0.5A Programmable functions
	<b>Power Supply</b>	10VDC power supply; maximum capacity: 50mA
<b>Safety</b>	<b>Protection</b>	Overcurrent/Phase-Phase short circuit in the output Under/Overvoltage Motor overload Overtemperature in the power module (IGBTs) Fault / External alarm Programming error
<b>Keypad</b>	<b>Integral (HMI)</b>	4 keys: Start/Stop, Up arrow, Down arrow, and Programming LCD Display View/Edit all parameters Indication accuracy: • current: 5% of the rated current • speed resolution: 0.1Hz
<b>Rated/Default Carrier Frequency</b>		5kHz (selectable 2.5, 5, 10, or 15 kHz)
<b>Input Voltage Range</b>		1-phase 115V models: 110–127 VAC (-15%, +10%) 1-phase & 3-phase 230V models: 200–240 VAC (-15%, +10%)
<b>Input Frequency Range</b>		50/60Hz (48 to 62 Hz)
<b>Allowable Input Phase Imbalance</b>		≤3% of rated phase-to-phase input voltage
<b>Overload Capacity</b>		150% for 60sec every 10min; 200% for 3 sec every 10min
<b>Braking</b>		Frame size A models: Not available Frame size B models: Integrated brake chopper
<b>Ambient Operating Temperature</b>		14 to 122 °F (-10 to 50°C); up to 140°F (60°C) with current derating (2% per 1°C above 50°C)
<b>Altitude</b>		0 to 3300ft (1000m); up to 13,200 ft (4000m) with current derating (1% per 100m above 1000m)
<b>Humidity</b>		5 to 95% non-condensing
<b>Mounting</b>		DIN rail or surface mounting with screws
<b>Mounting Orientation</b>		Vertical and upright; can be mounted side-to-side (zero stack)
<b>Environmental Protection Rating</b>		IP20
<b>Agency Approvals *</b>		cUL <sub>us</sub> [NMMS.E184430,NMMS7.E184430] (except CFW300-IOADR temperature combo module, CFW300-KFx-xx EMI Filters) CE (except CFW300-IOADR)

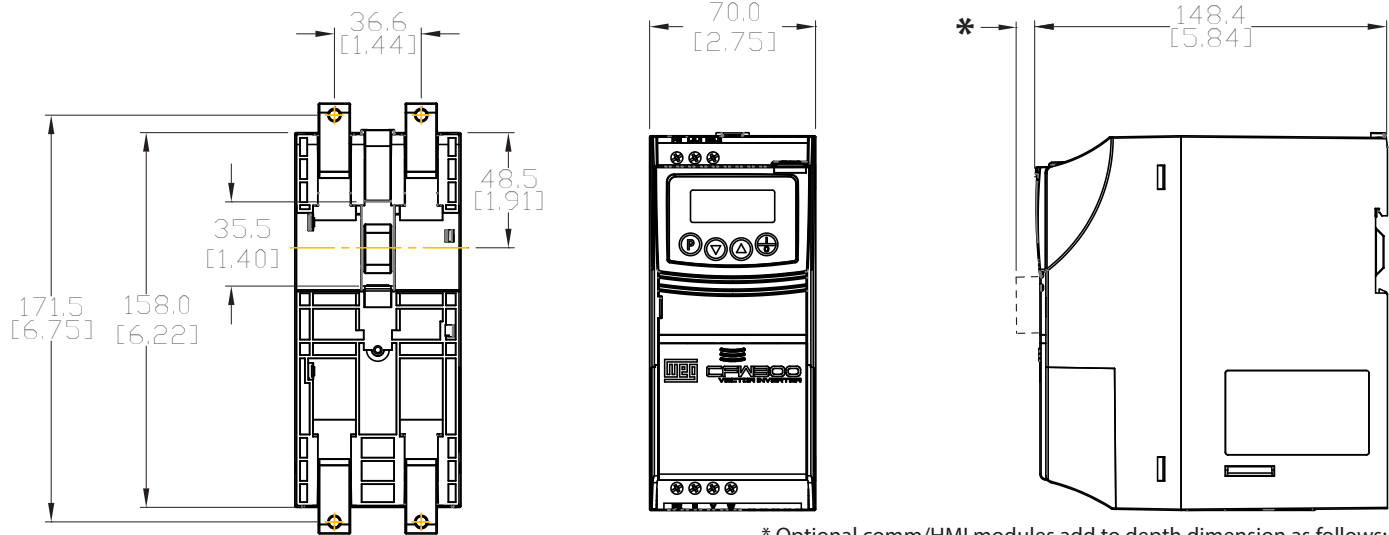
\* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

# WEG CFW300 AC Drives – Dimensions

( mm [in] )

See our website ([www.AutomationDirect.com](http://www.AutomationDirect.com)) for complete engineering drawings.

## CFW300 Drive Frame Size A (without RFI Filter)

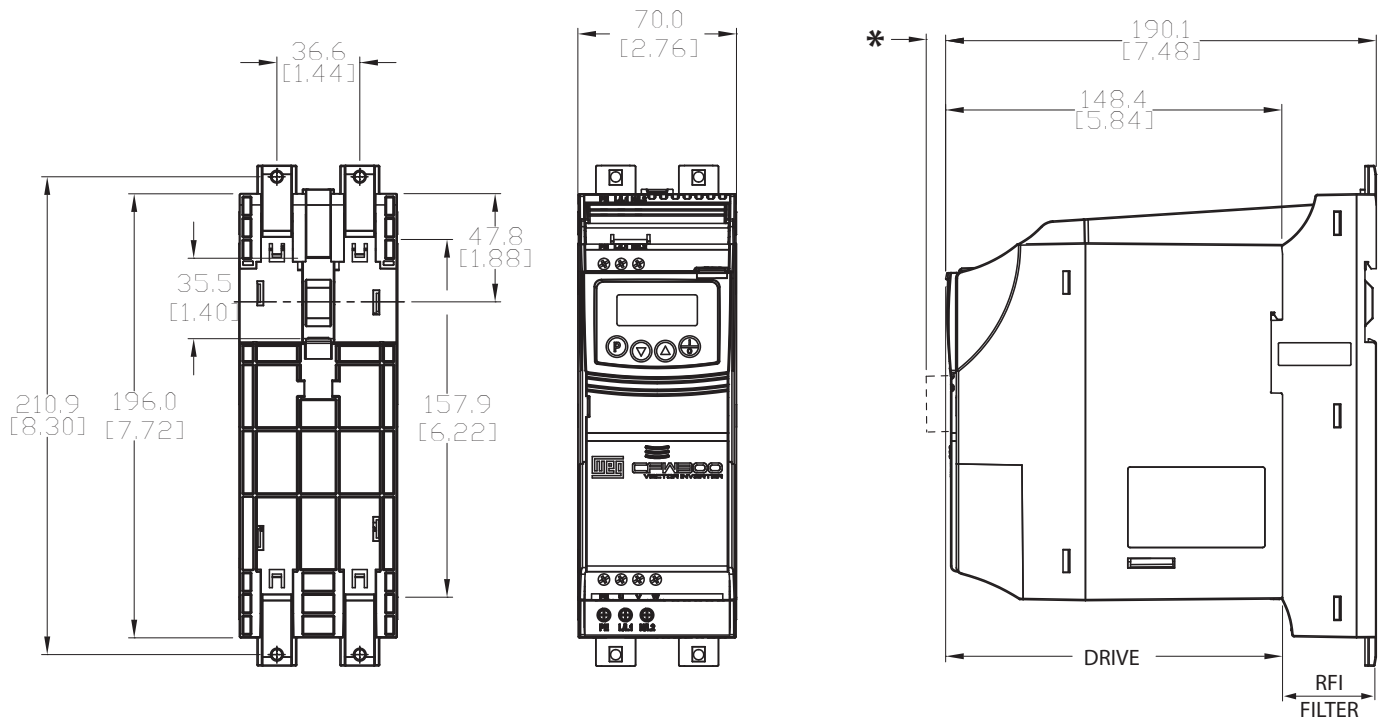


\* Optional comm/HMI modules add to depth dimension as follows:

CFW300-KHMIR, -RS232, or -RS485 adds: 21.2 [0.84]

CFW300-CUSB adds: 14.6 [0.58]

## CFW300 Drive Frame Size A (with RFI Filter CFW300-KFA-S1-S2)



\* Optional comm/HMI modules add to depth dimension as follows:

CFW300-KHMIR, -RS232, or -RS485 adds: 21.2 [0.84]

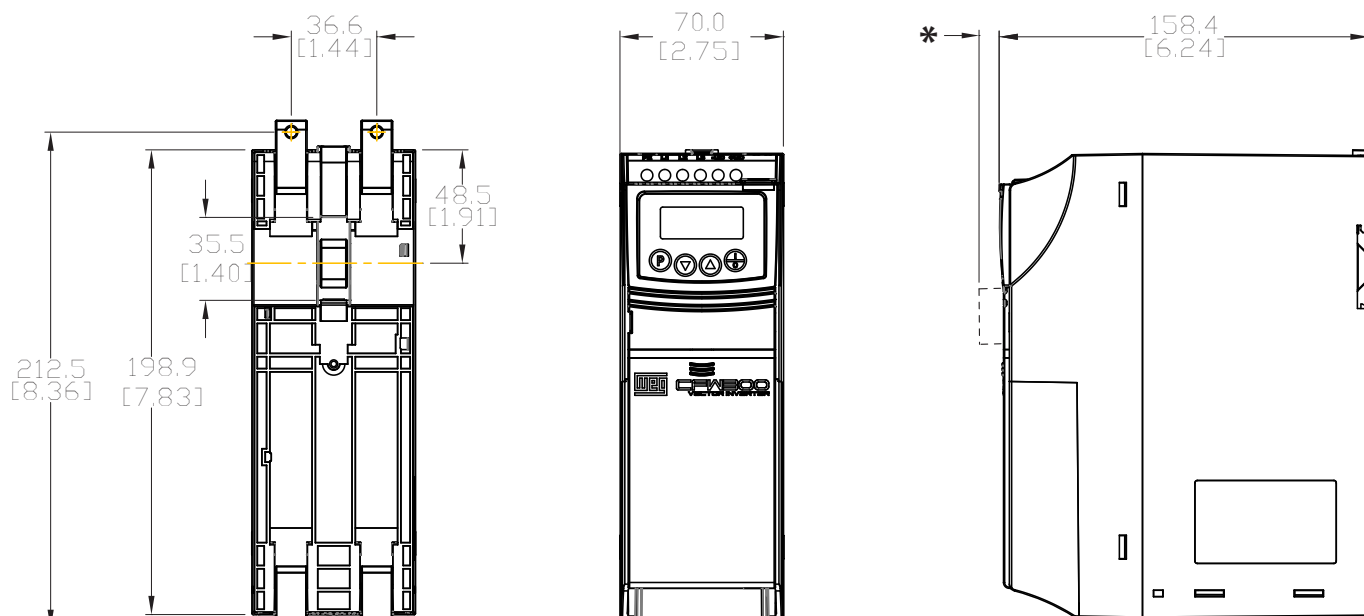
CFW300-CUSB adds: 14.6 [0.58]

# WEG CFW300 AC Drives – Dimensions

( mm [in] )

See our website ([www.AutomationDirect.com](http://www.AutomationDirect.com)) for complete engineering drawings.

## CFW300 Drive Frame Size B (without RFI Filter)

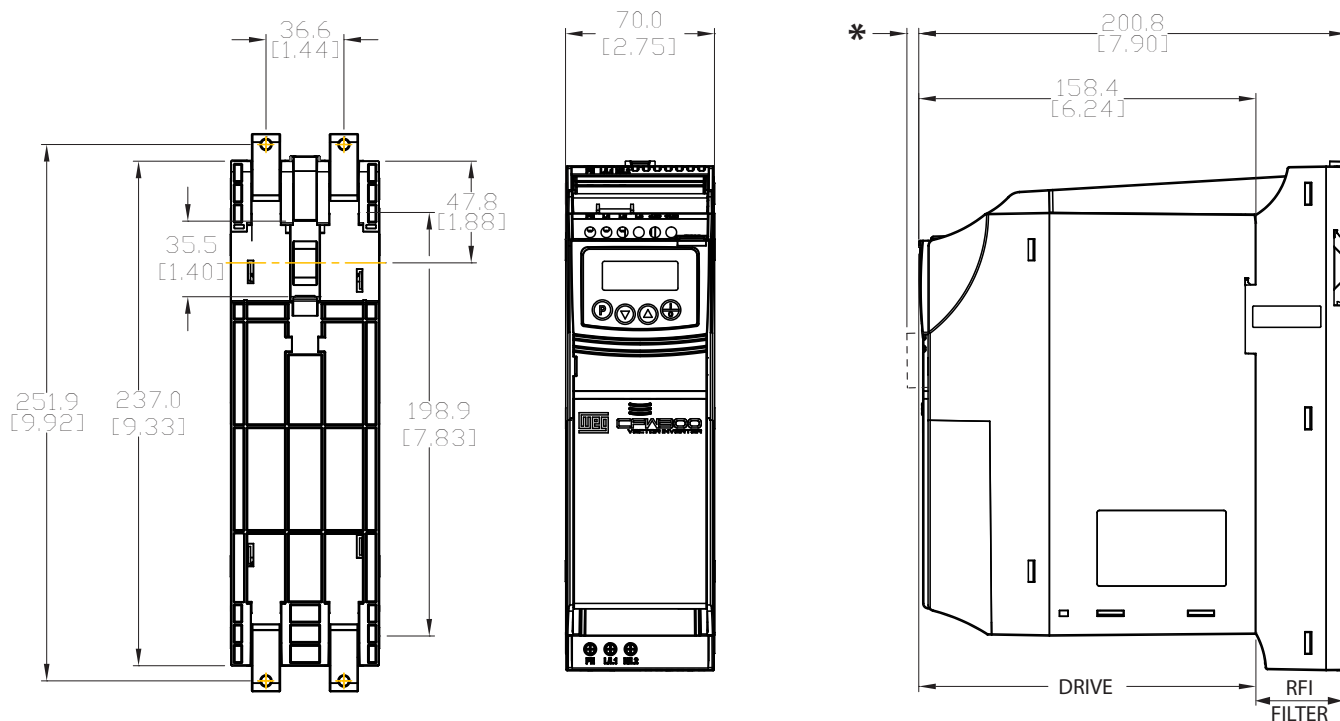


\* Optional comm/HMI modules add to depth dimension as follows:

CFW300-KHMIR, -RS232, or -RS485 adds: 21.2 [0.84]

CFW300-CUSB adds: 14.6 [0.58]

## CFW300 Drive Frame Size B (with RFI Filter CFW300-KFB-S2)

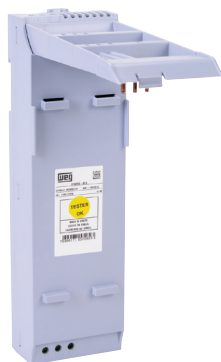


\* Optional comm/HMI modules add to depth dimension as follows:

CFW300-KHMIR, -RS232, or -RS485 adds: 21.2 [0.84]

CFW300-CUSB adds: 14.6 [0.58]

# WEG CFW300 AC Drives – Accessories

**CFW300-CRS232****CFW300-CRS485****CFW300-CUSB****CFW300-IOADR****CFW300-IOAENC****CFW300-IOAR****CFW300-IODR****CFW300-KFA-S1-S2****CFW300-KFB-S2****CFW300-KHMIR****CFW100-CFW300-MMF****CFW300-FAN-B****CFW300-FAN-A**

## WEG CFW300 AC Drives Accessories

Model #	Price	Description	Use With Drive #CFW...
<b><u>CFW300-CRS232</u></b> <sup>1)</sup>	\$41.50	RS-232 serial communication module (Modbus-RTU)	...all
<b><u>CFW300-CRS485</u></b> <sup>1)</sup>	\$41.50	RS-485 serial communication module (Modbus-RTU)	
<b><u>CFW300-CUSB</u></b> <sup>1)</sup>	\$44.00	USB communication module + 2m cable	
<b><u>CFW300-IOADR</u></b> <sup>2)</sup>	\$105.00	WEG Electric CFW300 series temperature combo module with infrared remote control, thermistor, 1-channel input, 3-point output, 250 VAC, (3) Form A (SPST) relays. For use with WEG CFW300 series AC drives.	
<b><u>CFW300-IOAENC</u></b> <sup>2)</sup>	\$73.00	WEG Electric CFW300 series encoder analog combo module, 400 kHz maximum switching frequency, 1-channel quadrature encoder input, Analog Input: 1-channel, Analog Output: 2-channel. For use with WEG CFW300 series AC drives.	
<b><u>CFW300-IOAR</u></b> <sup>2)</sup>	\$72.00	WEG Electric CFW300 series relay analog combo module, Analog Input: 1-channel, current/voltage, Analog Output: 1-channel, current/voltage, Discrete Output: 3-point, relay, (3) Form A (SPST) relays. For use with WEG CFW300 series AC drives.	...300A...
<b><u>CFW300-IODR</u></b> <sup>2)</sup>	\$55.00	WEG Electric CFW300 series discrete output module, Input: 4-point, 24 VDC, sinking/sourcing, Output: 3-point, 250 VAC, relay, (3) Form A (SPST) relays, 5A/point. For use with WEG CFW300 series AC drives.	
<b><u>CFW300-KFA-S1-S2</u></b>	\$46.00	WEG Electric EMI input filter, 1-phase, 7.3A, 35mm DIN rail mount, EMI/RFI filtering. For use with WEG CFW300Axxx 1-phase AC drives.	
<b><u>CFW300-KFB-S2</u></b>	\$53.00	WEG Electric EMI input filter, 1-phase, 10A, 35mm DIN rail mount, EMI/RFI filtering. For use with WEG CFW300Bxxx 1-phase AC drives.	...300B...
<b><u>CFW300-KHMIR</u></b> <sup>1)</sup>	\$130.00	WEG Electric CFW300 series remote serial HMI, for use with WEG CFW300 series AC drives. (1) CFW300-CRS485 communication module, (1) 9.8ft/3m USB A to miniB-USB cable and installation hardware for optional panel mounting included.	...all
<b><u>CFW100-CFW300-MMF</u></b>	Retired	WEG Electric CFW300 series flash memory module, for use with WEG CFW300 series AC drives. (Requires three AAA batteries; not included.)	
<b><u>CFW300-FAN-A</u></b>	\$35.50	Spare/Replacement main cooling fan for CFW300 frame size A drives	...300A...
<b><u>CFW300-FAN-B</u></b>	\$35.50	Spare/Replacement main cooling fan for CFW300 frame size B drives	...300B...

<sup>1)</sup> Only one communication or HMI module per drive; mounted in upper slot

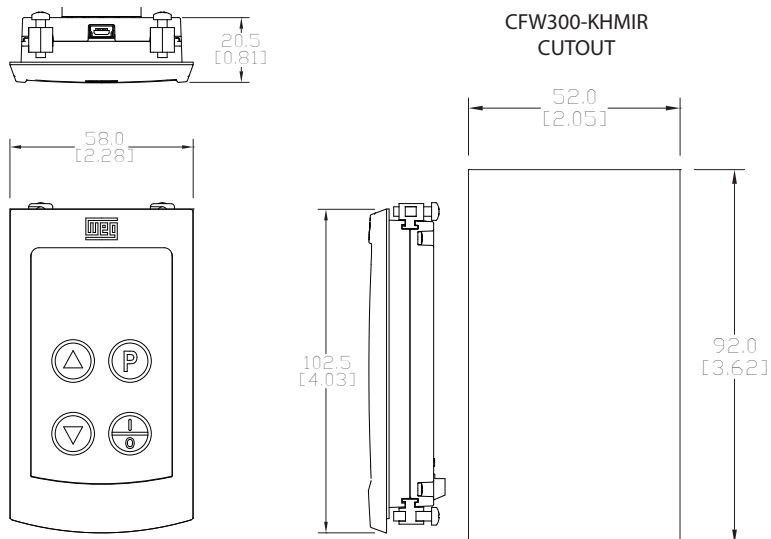
<sup>2)</sup> Only one I/O expansion module per drive; mounted in lower slot

# WEG CFW300 AC Drives Accessories – Dimensions

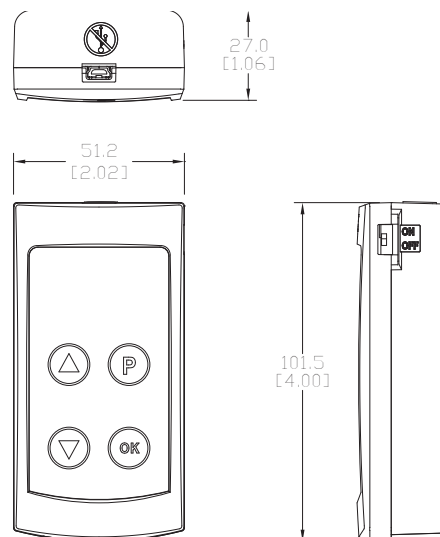
( mm [in] )

See our website ([www.AutomationDirect.com](http://www.AutomationDirect.com)) for complete engineering drawings.

**CFW300-KHMIR Remote Keypad**



**CFW100-CFW300-MMF Flash Memory Module**





# WEG CFW300 AC Drives – Accessories

Additional Accessories Recommended for WEG CFW300 AC Drives												
Drive Part # CFW300...	Input Ø/V	C/B Amp	Motor Protector <sup>1) 4)</sup>		Fuse <sup>1) 4)</sup>					Filter		
			WEG <sup>1) 5)</sup>	Fuji <sup>4)</sup>	Amp	Class J <sup>1)</sup>	Class J Holder	Class T <sup>4)</sup>	Class T Holder	WEG EMI/RFI	Roxburgh EMI	
...A01P6S1NB20	1Ø 115VAC	10	<a href="#">MPW40-3-U010</a>	<a href="#">BM3RHB-013</a> <a href="#">BM3VHB-013</a>	20	<a href="#">JHL20</a> (JHL20-1)	<a href="#">JM60030-1CR</a>	<a href="#">TJN20</a> (TJN20-1)	<a href="#">T30030-2SR</a>	<a href="#">CFW300-KFA-S1-S2</a>		
...A02P6S1NB20		16	<a href="#">MPW40-3-U016</a>	<a href="#">BM3RHB-020</a> <a href="#">BM3VHB-020</a>	20	<a href="#">JHL20</a> (JHL20-1)	<a href="#">JM60030-1CR</a>	<a href="#">TJN20</a> (TJN20-1)	<a href="#">T30030-2SR</a>			
...A04P2S1NB20		20	<a href="#">MPW40-3-U020</a> <sup>2)</sup>	<a href="#">BM3RHB-025</a> <a href="#">BM3VHB-025</a>	35	<a href="#">JHL35</a> (JHL35-1)	<a href="#">JM60060-1CR</a>	<a href="#">TJN35</a> (TJN35-1)	<a href="#">T30060-2CR</a>			
...A06P0S1NB20		32	<a href="#">MPW40-3-U032</a> <sup>3)</sup>	<a href="#">BM3VHB-040</a>	35	<a href="#">JHL35</a> (JHL35-1)	<a href="#">JM60060-1CR</a>	<a href="#">TJN35</a> (TJN35-1)	<a href="#">T30060-2CR</a>			
...A01P6S2NB20	1Ø 230VAC	6.3	<a href="#">MPW40-3-D063</a>	<a href="#">BM3RHB-010</a> <a href="#">BM3VHB-010</a>	20	<a href="#">JHL20</a> (JHL20-1)	<a href="#">JM60030-2CR</a>	<a href="#">TJN20</a> (TJN20-1)	<a href="#">T30030-2SR</a>	<a href="#">CFW300-KFB-S2</a>	n/a	
...A02P6S2NB20		10	<a href="#">MPW40-3-U010</a>	<a href="#">BM3RHB-013</a> <a href="#">BM3VHB-013</a>	20	<a href="#">JHL20</a> (JHL20-1)	<a href="#">JM60030-2CR</a>	<a href="#">TJN20</a> (TJN20-1)	<a href="#">T30030-2SR</a>			
...A04P2S2NB20		16	<a href="#">MPW40-3-U016</a>	<a href="#">BM3RHB-020</a> <a href="#">BM3VHB-020</a>	20	<a href="#">JHL20</a> (JHL20-1)	<a href="#">JM60030-2CR</a>	<a href="#">TJN20</a> (TJN20-1)	<a href="#">T30030-2SR</a>			
...A06P0S2NB20		16	<a href="#">MPW40-3-U016</a>	<a href="#">BM3RHB-020</a> <a href="#">BM3VHB-020</a>	20	<a href="#">JHL20</a> (JHL20-1)	<a href="#">JM60030-2CR</a>	<a href="#">TJN20</a> (TJN20-1)	<a href="#">T30030-2SR</a>			
...A07P3S2NB20		20	<a href="#">MPW40-3-U020</a> <sup>2)</sup>	<a href="#">BM3RHB-025</a> <a href="#">BM3VHB-025</a>	25	<a href="#">JHL25</a> (JHL25-1)	<a href="#">JM60030-2CR</a>	<a href="#">TJN25</a> (TJN25-1)	<a href="#">T30030-2SR</a>			
...B10P0B2DB20		25	<a href="#">MPW40-3-U025</a> <sup>2)</sup>	<a href="#">BM3RHB-032</a> <a href="#">BM3VHB-032</a>	35	<a href="#">JHL35</a> (JHL35-1)	<a href="#">JM60060-2CR</a>	<a href="#">TJN35</a> (TJN35-1)	<a href="#">T30060-2CR</a>			
...A01P6T2NB20	3Ø 230VAC	2.5	<a href="#">MPW40-3-D025</a>	<a href="#">BM3RHB-004</a>	20	<a href="#">JHL20</a> (JHL20-1)	<a href="#">JM60030-3CR</a>	<a href="#">TJN20</a> (TJN20-1)	<a href="#">T30030-3SR</a>	n/a	<a href="#">KMF306A</a> <a href="#">MIF310</a>	
...A02P6T2NB20		6.3	<a href="#">MPW40-3-D063</a>	<a href="#">BM3RHB-010</a> <a href="#">BM3VHB-010</a>	20	<a href="#">JHL20</a> (JHL20-1)	<a href="#">JM60030-3CR</a>	<a href="#">TJN20</a> (TJN20-1)	<a href="#">T30030-3SR</a>		<a href="#">KMF310A</a> <a href="#">MIF310</a>	
...A04P2T2NB20		10	<a href="#">MPW40-3-U010</a>	<a href="#">BM3RHB-013</a> <a href="#">BM3VHB-013</a>	20	<a href="#">JHL20</a> (JHL20-1)	<a href="#">JM60030-3CR</a>	<a href="#">TJN20</a> (TJN20-1)	<a href="#">T30030-3SR</a>		<a href="#">KMF318A</a> <a href="#">MIF316</a>	
...A06P0T2NB20		10	<a href="#">MPW40-3-U010</a>	<a href="#">BM3RHB-013</a> <a href="#">BM3VHB-013</a>	20	<a href="#">JHL20</a> (JHL20-1)	<a href="#">JM60030-3CR</a>	<a href="#">TJN20</a> (TJN20-1)	<a href="#">T30030-3SR</a>		<a href="#">KMF318A</a> <a href="#">MIF316</a>	
...A07P3T2NB20		16	<a href="#">MPW40-3-U016</a>	<a href="#">BM3RHB-020</a> <a href="#">BM3VHB-020</a>	20	<a href="#">JHL20</a> (JHL20-1)	<a href="#">JM60030-3CR</a>	<a href="#">TJN20</a> (TJN20-1)	<a href="#">T30030-3SR</a>		<a href="#">KMF318A</a> <a href="#">MIF316</a>	
...B10P0B2DB20		25	<a href="#">MPW40-3-U025</a> <sup>2)</sup>	<a href="#">BM3RHB-032</a> <a href="#">BM3VHB-032</a>	35	<a href="#">JHL35</a> (JHL35-1)	<a href="#">JM60060-3CR</a>	<a href="#">TJN35</a> (TJN35-1)	<a href="#">T30060-3CR</a>		<a href="#">KMF336A</a> <a href="#">MIF330B</a>	
...B15P2T2DB20		25	<a href="#">MPW40-3-U025</a> <sup>2)</sup>	<a href="#">BM3RHB-032</a> <a href="#">BM3VHB-032</a>	35	<a href="#">JHL35</a> (JHL35-1)	<a href="#">JM60060-3CR</a>	<a href="#">TJN35</a> (TJN35-1)	<a href="#">T30060-3CR</a>		<a href="#">KMF336A</a> <a href="#">MIF330B</a>	
Drive Part # (same as above) CFW300...		Input Ø/V	Input Line Reactor	Output Load Reactor	3-Phase Output dV/dT Filter	Braking Resistors <sup>6)</sup>						
	Resistor (ADC)					Drive Rated A	Peak Braking Current I <sub>pk</sub> (A)	Min Resistor (Ω)	Max Braking Current I <sub>rms</sub> (A)	Max Braking Torque* (%)		
...A01P6S1NB20	1Ø 115VAC	<a href="#">LR2-10P2-1PH</a>	<a href="#">LR2-20P5</a>	<a href="#">VTF-46-DE</a>	n/a	n/a	n/a	n/a	n/a	n/a		
...A02P6S1NB20		<a href="#">LR2-10P5-1PH</a>	<a href="#">LR2-20P5</a>	<a href="#">VTF-246-CFG</a>								
...A04P2S1NB20		<a href="#">LR2-22P0-1PH</a>	<a href="#">LR2-20P5</a>	<a href="#">VTF-24-FH</a>								
...A06P0S1NB20		<a href="#">LR2-11P5-1PH</a>	<a href="#">LR2-21P0</a>	<a href="#">VTF-24-FH</a>								
...A01P6S2NB20	1Ø 230VAC	<a href="#">LR2-20P2-1PH</a>	<a href="#">LR2-20P5</a>	<a href="#">VTF-46-DE</a>								
...A02P6S2NB20		<a href="#">LR2-20P5-1PH</a>	<a href="#">LR2-20P5</a>	<a href="#">VTF-246-CFG</a>								
...A04P2S2NB20		<a href="#">LR2-21P0-1PH</a>	<a href="#">LR2-20P5</a>	<a href="#">VTF-24-FH</a>								
...A06P0S2NB20		<a href="#">LR2-21P5-1PH</a>	<a href="#">LR2-21P0</a>	<a href="#">VTF-24-FH</a>								
...A07P3S2NB20		<a href="#">LR2-22P0-1PH</a>	<a href="#">LR2-22P0</a>	<a href="#">VTF-246-GJJ</a>								
...B10P0B2DB20		<a href="#">LR-27P5 (1PH) / LR-23P0</a>	<a href="#">LR-23P0</a>	<a href="#">VTF-246-HKL</a>	<a href="#">GS-25P0-BR</a>	10	11	39	10	110%		
...A01P6T2NB20	3Ø 230VAC	<a href="#">LR2-20P2-1PH</a>	<a href="#">LR2-20P5</a>	<a href="#">VTF-46-DE</a>	n/a	n/a	n/a	n/a	n/a	n/a		
...A02P6T2NB20		<a href="#">LR2-20P5</a>	<a href="#">LR2-20P5</a>	<a href="#">VTF-246-CFG</a>								
...A04P2T2NB20		<a href="#">LR2-20P7</a>	<a href="#">LR2-20P7</a>	<a href="#">VTF-24-FH</a>								
...A06P0T2NB20		<a href="#">LR2-20P7</a>	<a href="#">LR2-20P7</a>	<a href="#">VTF-24-FH</a>								
...A07P3T2NB20		<a href="#">LR2-10P2-1PH</a>	<a href="#">LR2-22P0</a>	<a href="#">VTF-246-GJJ</a>								
...B15P2T2DB20		<a href="#">LR-25P0</a>	<a href="#">LR-25P0</a>	<a href="#">VTF-24-JL</a>	<a href="#">GS-25P0-BR</a>	15	11	39	10	73%		

1) WEG published “High Fault” SCCR ratings (65kA) require the use of either the MPW40 motor protector or Class J fuses.

2) For these MPW40 models, the CLT32 accessory is required for 65kA SCCR (without CLT32 current limiter, the SCCR maximum is 50kA).

3) For this MPW40 model, the CLT32 accessory is required for 65kA SCCR (without CLT32 current limiter, the SCCR maximum is 42kA).

4) The use of Fuji BM3RHB motor protectors or Class T fuses will lower the SCCR to the “Standard Fault” rating of 5kA.

5) WEG MPW motor protectors and TCI KDR reactors are not currently sold by AutomationDirect.

6) Max braking torque @ 10% duty cycle with maximum ON (braking) time of 10 seconds.

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5) WEG MPW motor protectors and TCI KDR reactors are not currently sold by AutomationDirect.

6) Max braking torque @ 10% duty cycle with maximum ON (braking) time of 10 seconds.



# CFW320 Series AC Drives – Introduction



## WEG CFW320 Series AC Drives

Motor Rating	hp	0.25	0.5	1	1.5	2	3	5	7.5	10
	kW	0.2	0.4	0.75	1.3	1.5	2.2	3.7	5.5	7.5
115V Single-Phase Input / 230V Three-Phase Output		✓	✓	✓	✓					
230V Single-Phase Input / 230V Three-Phase Output		✓	✓	✓	✓	✓	✓			
230V Three-Phase Input / 230V Three-Phase Output		✓	✓	✓	✓	✓	✓	✓		
460V Three-Phase Input / 460V Three-Phase Output			✓	✓		✓	✓	✓	✓	✓

## WEG CFW320 Overview

WEG CFW320 variable frequency drives are high-performance VFDs for three-phase induction motors. They are ideal for applications on machines or equipment that require precise variable-speed control with easy setup and operation. The CFW320 series adds expanded capability above the CFW300, with 460V models up to 10HP and optional Ethernet communications connectivity.

The CFW320 series features compact size with contactor-style electrical connections (top in / bottom out). The CFW320's performance can be scaled to match the application by selecting WEG vector control (V/V) or scalar control (V/F).

CFW320s include built-in operator interface (HMI) and SoftPLC with free WPS programming software for custom-tailored control schemes. A variety of plug-in option modules for additional I/O and communications protocols are available to provide extended capabilities, making the CFW320 a flexible and cost effective solution for your variable-speed requirements.

## Features

- Single-phase and three-phase voltage supply
- DIN rail (35mm) or surface mounting with screws
- Side-by-side mounting; no heat dissipation space required beside/between the drives
- Voltage range:
  - 1-phase models, 120VAC and 230VAC
  - 3-phase models: 230VAC and 460VAC
- Current/Power range:
  - 230V up to 15.2A / 5HP. 460V up to 14A / 10HP
- Control mode: Scalar (V/Hz) or Voltage Vector (V/V)
- Switching frequency: 2.5, 5, 10, or 15kHz
- Output frequency range: 0–400 Hz; 0.1Hz resolution

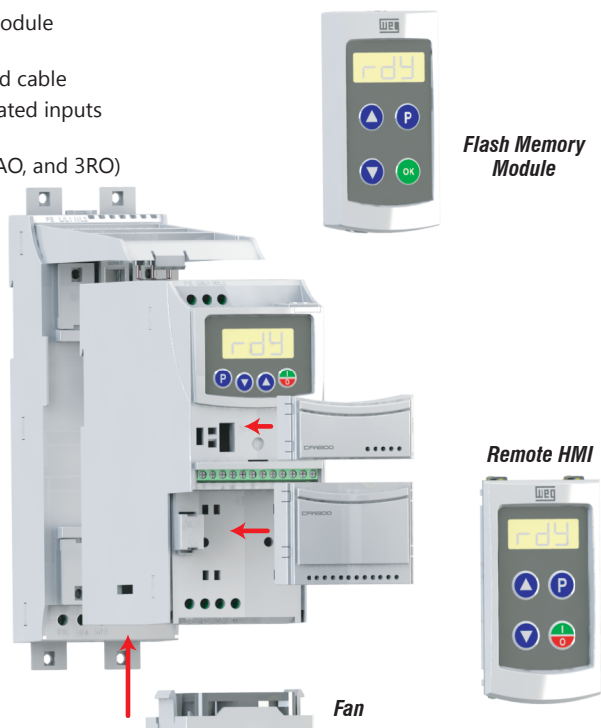
- Overload capacity: 150% for 60sec every 10min; 200% for 3sec every 10min
- Degree of protection: IP20
- Operating temperatures:
  - 120VAC & 230VAC models 32 to 122°F (0 to 50°C); up to 140°F (60°C) with current derating (2% per 1°C above 50°C)
  - 460VAC models 32 to 104°F (0 to 40°C); up to 122°F (50°C) with current derating (2% per 1°C above 40°C)
- Altitude: 0 to 3300ft (1000m); up to 13,200 ft (4000m) with current derating (1% per 100m above 1000m)
- Integrated dynamic braking available on select models. (All 460V & 230V B Frame)
- Local keypad standard on all models.
- cULus, CE

## Accessories

- Remote keypad with mounting kit and cable
- Ethernet communication module: dual port supports Modbus TCP and EtherNet/IP
- RS-232 serial communication module (Modbus RTU)
- RS-485 serial communication module (Modbus RTU)
- USB communication module and cable
- IODR expansion module – Insulated inputs (NPN or PNP)
- IOAR expansion module (1AI, 1AO, and 3RO)
- IOAENC incremental encoder module (A/A - B/B) with additional analog IO
- MMF-UDRIVES flash memory module and cable
- IOP speed potentiometer
- RFI Filter

## Typical Applications

- Blenders / Mixers
- Centrifugal pumps
- Centrifuges
- Commercial Dryers
- Compressors
- Conveyors
- Fans / Blowers
- Granulators
- Roller Tables
- Rotary Filters
- Great match with WEG S Series Rolled Steel AC Motors



Modular design with easy-to-install accessories



# CFW320 AC Drives – Selection Specifications

## CFW320 Drive Model Selection Tables

CFW320A (Frame Size A)

CFW320B (Frame Size B)

CFW320C (Frame Size C)

Zero-Stack Mounting  
(no side-to-side heat dissipation space required)



### WEG CFW320 AC Drives Selection Specifications

Drive Model #	Price	Applicable Motor 1) 2)		Drive Output		Drive Input		Input Protection		Drive				
		Maximum Power		Nominal Phase / Voltage	Rated Current 3)	Nominal Phase / Voltage	Rated Current (A)	Circuit Breaker (A)	Fuse 4) (A)	Power Loss (W)	Dynamic Braking	Weight	Frame Size	Drawing Link
		(hp)	(kW)		(A)									
CFW320A01P6S1NB20	\$185.00	0.25	0.18	3Ø / 230 VAC	1.6	1Ø / 120 VAC	7.1	10	20	30	No	0.90 kg [1.98 lb]	A	<a href="#">PDF</a>
CFW320A02P6S1NB20	\$201.00	0.5	0.50		2.6		11.5	16	20	45				<a href="#">PDF</a>
CFW320A04P2S1NB20	\$215.00	1.0	0.75		4.2		17.7	20	35	60				<a href="#">PDF</a>
CFW320A06P0S1NB20	\$259.00	1.5	1.32		6.0		26.5	32	40	75				<a href="#">PDF</a>
CFW320A01P6S2NB20	\$165.00	0.25	0.18		1.6	1Ø / 230 VAC	3.5	6.3	20	30				<a href="#">PDF</a>
CFW320A02P6S2NB20	\$178.00	0.5	0.50		2.6		5.7	10	20	35				<a href="#">PDF</a>
CFW320A04P2S2NB20	\$190.00	1.0	0.75		4.2		9.2	16	20	50				<a href="#">PDF</a>
CFW320A06P0S2NB20	\$236.00	1.5	1.32		6.0		13.2	16	20	75				<a href="#">PDF</a>
CFW320A07P3S2NB20	\$277.00	2.0	1.50		7.3	3Ø / 230 VAC	16.1	20	25	90				<a href="#">PDF</a>
CFW320A01P6T2NB20	\$175.00	0.25	0.18		1.6		2.0	2.5	20	30				<a href="#">PDF</a>
CFW320A02P6T2NB20	\$192.00	0.5	0.50		2.6		3.1	6.3	20	35				<a href="#">PDF</a>
CFW320A04P2T2NB20	\$204.00	1.0	0.75		4.2		5.0	10	20	50				<a href="#">PDF</a>
CFW320A06P0T2NB20	\$247.00	1.5	1.32		6.0		7.2	10	20	75				<a href="#">PDF</a>
CFW320A07P3T2NB20	\$292.00	2.0	1.50		7.3		8.8	16	20	90				<a href="#">PDF</a>
CFW320B10P0B2DB20	\$331.00	3.0	2.20	3Ø / 460 VAC	10.0	1Ø / 230 VAC	22.0	25	35	100	Yes	1.34 kg [2.95 lb]	B	<a href="#">PDF</a>
CFW320B15P2T2DB20	\$404.00	5.0	3.70		15.2	3Ø / 230 VAC	12.0							<a href="#">PDF</a>
CFW320A01P1T4NB20	\$238.00	0.5	0.55		1.1	3Ø / 460 VAC	1.3	1.6	20	26	No	0.90 kg [1.98 lb]	A	<a href="#">PDF</a>
CFW320A02P6T4NB20	\$247.00	1.0	1.10		2.6		3.1	4	20	42				<a href="#">PDF</a>
CFW320A03P5T4NB20	\$265.00	2.0	2.20		3.5		4.2	6.3	20	55				<a href="#">PDF</a>
CFW320A04P8T4NB20	\$326.00	3.0	2.20		4.8		5.8	10	20	69				<a href="#">PDF</a>
CFW320B01P1T4DB20	\$249.00	0.5	0.55		1.1		1.3	1.6	20	26	Yes	1.34 kg [2.95 lb]	B	<a href="#">PDF</a>
CFW320B02P6T4DB20	\$262.00	1.0	1.10		2.6		3.1	4	20	42				<a href="#">PDF</a>
CFW320B03P5T4DB20	\$289.00	2.0	2.20		3.5		4.2	6.3	20	55				<a href="#">PDF</a>
CFW320B04P8T4DB20	\$365.00	3.0	2.20		4.8		5.8	10	20	69				<a href="#">PDF</a>
CFW320B07P6T4DB20	\$436.00	5.0	3.70		7.6		9.1	16	25	111	No			<a href="#">PDF</a>
CFW320B07P6T4NB20	\$413.00							16	25	111				<a href="#">PDF</a>
CFW320C11P0T4DB20	\$493.00	7.5	5.50		11.0		13.2	20	25	164	Yes	1.50 kg [3.30 lb]	C	<a href="#">PDF</a>
CFW320C11P0T4NB20	\$469.00							20	25	164	No			<a href="#">PDF</a>
CFW320C14P0T4DB20	\$610.00	10.0	7.50		14.0		16.8	25	30	172	Yes			<a href="#">PDF</a>
CFW320C14P0T4NB20	\$580.00							25	30	172	No			<a href="#">PDF</a>

1) For Use With 3-Phase Motors Only.

2) The power values for the maximum applicable motor shown are reference values and are valid for WEG three-phase, four-pole induction motors with power supply of 230VAC. The proper sizing of the CFW320 drive must be determined as a function of the rated current of the motor being used.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.

4) For UL61800-5-1 compliance, use UL fuse type J for standard fault of 5kA.

5) Model CFW320B10P0B2DB20 is capable of Single-Phase input without derating.



# CFW320 AC Drives – General Specifications

CFW320 General Specifications (Applicable to All Models)		
<b>Control</b>	<b>Method</b>	V/F (scalar) V/F (quadratic) VVW: voltage vector control PWM SVM (Space Vector Modulation)
	<b>Output Frequency Range</b>	0–400 Hz; 0.1Hz resolution
<b>Performance</b>	<b>V/Hz Control</b>	Speed regulation: 1% of the rated speed (with slip compensation) Speed variation range: 1:20
	<b>VVW Control</b>	Speed regulation: 1% of the rated speed Speed variation range: 1:30
<b>Inputs</b>	<b>Analog</b>	1 insulated input; Levels: 0–10V or 0–20mA or 4–20mA Linearity error ≤ 0.25% Impedance: 100kΩ for voltage input; 500Ω for current input Programmable functions Maximum input voltage allowed: 30VDC
	<b>Digital</b>	4 isolated inputs Programmable functions <ul style="list-style-type: none"><li>• active high (PNP): maximum low level of 10VDC minimum high level of 20VDC</li><li>• active low (NPN): maximum low level of 5VDC minimum high level of 10VDC</li></ul> Maximum input voltage allowed: 30VDC Input current: 11mA Maximum input current: 20mA
<b>Outputs</b>	<b>Relay</b>	1 relay with NO/NC contacts Maximum voltage: 250VAC Maximum current: 0.5A Programmable functions
	<b>Power Supply</b>	10VDC power supply; maximum capacity: 50mA
<b>Safety</b>	<b>Protection</b>	Overcurrent/Phase-Phase short circuit in the output Under/Overtoltage Motor overload Overtemperature in the power module (IGBTs) Fault / External alarm Programming error
<b>Keypad</b>	<b>Integral (HMI)</b>	4 keys: Start/Stop, Up arrow, Down arrow, and Programming LCD Display View/Edit all parameters Indication accuracy: <ul style="list-style-type: none"><li>• current: 5% of the rated current</li><li>• speed resolution: 0.1Hz</li></ul>
<b>Rated/Default Carrier Frequency</b>		5kHz (selectable 2.5, 5, 10, or 15 kHz)
<b>Input Voltage Range</b>		1-phase 120V models: 110–127 VAC (-15%, +10%) 1-phase & 3-phase 230V models: 200–240 VAC (-15%, +10%) 3-phase 460V: 380 - 480 VAC (-15%, +10%)
<b>Input Frequency Range</b>		50/60Hz (48 to 62 Hz)
<b>Allowable Input Phase Imbalance</b>		≤3% of rated phase-to-phase input voltage
<b>Overload Capacity</b>		150% for 60sec every 10min; 200% for 3 sec every 10min
<b>Braking</b>		Integrated dynamic braking on select models: 230V: Frame B only (3HP & 5HP) 460V: Models offered for 0.5HP to 10HP
<b>Ambient Operating Temperature</b>		120VAC & 230VAC models: 32 to 122°F (0 to 50°C); up to 140°F (60°C) with current derating (2% per 1°C above 50°C) 460VAC models: 32 to 104°F (0 to 40°C); up to 122°F (50°C) with current derating (2% per 1°C above 40°C)
<b>Altitude</b>		0 to 3300ft (1000m); up to 13,200 ft (4000m) with current derating (1% per 100m above 1000m)
<b>Humidity</b>		5 to 95% non-condensing
<b>Mounting</b>		35mm DIN rail or surface mounting with screws
<b>Mounting Orientation</b>		Vertical and upright; can be mounted side-to-side (zero stack)
<b>Environmental Protection Rating</b>		IP20
<b>Agency Approvals *</b>		cUL <sub>US</sub> [NMMS.E184430,NMMS7.E184430] (except CFW320-KFx-xx EMI Filters), CE
* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.		



# CFW320 AC Drives

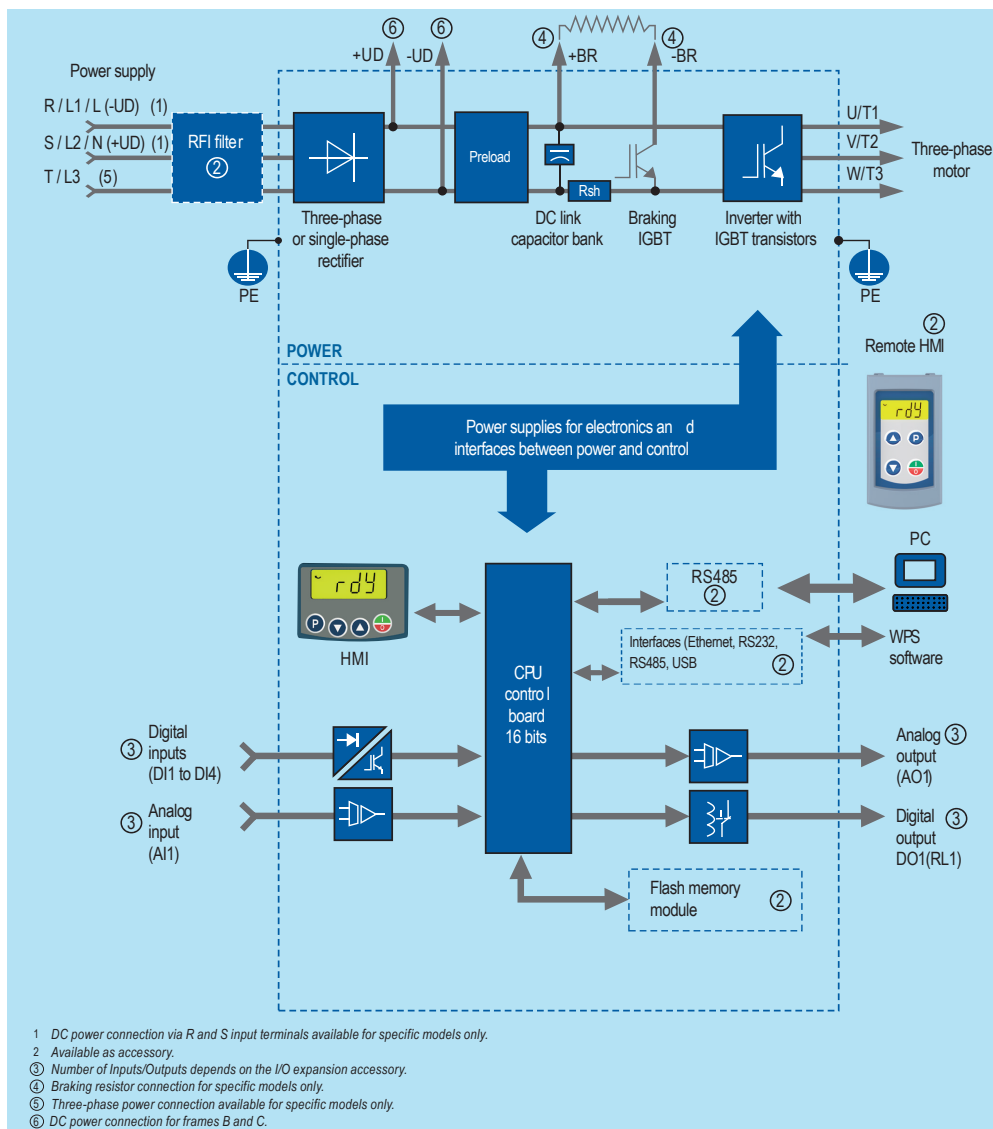
## Part Number Breakdown

### CFW320 Part Number Breakdown

Example Given: **CFW320A01P6S2NB20**

Inverter / Smart Code	Model Identification				Internal Dynamic Braking (IGBT)	Protection Degree	Hardware Version	Software Version
	Size	Rated Output Current	Number of Phases	Rated Voltage				
CFW320	A	01P6	S	2	NB	20		
	S = 1-Phase T = 3-Phase B = 1-Phase & 3-Phase							
	1 = 120VAC 2 = 230VAC 4 = 480VAC							
	NB = without dynamic braking (IGBT) DB = with dynamic braking (IGBT)							
	20 = IP20							
	Hx = special hardware							
	Sx = special software							

## Block Diagram







# CFW320 AC Drives – Accessories

## WEG CFW320 AC Drives Accessories

Model #	Price	Description	Drawing Link
<b>Accessory Modules</b>			
<a href="#"><u>CFW320-CETH</u></a>	\$147.00	WEG Electric CFW320 series communication module, EtherNet/IP, Modbus TCP and webserver, 2 ports, (2) Ethernet (RJ45) port(s). For use with WEG CFW320 series AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW320-CRS232</u></a>	\$44.00	WEG Electric CFW320 series communication module, Modbus RTU, 1 port, (1) RS-232 (5-pin terminal) port(s). For use with WEG CFW320 series AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW320-CRS485</u></a>	\$44.00	WEG Electric CFW320 series communication module, Modbus RTU, 2 ports, (1) RS-485 (5-pin terminal) and (1) miniB-USB port(s). For use with WEG CFW320 series AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW320-CUSB</u></a>	\$50.00	WEG Electric CFW320 series communication module, Modbus RTU, 1 port, (1) miniB-USB port(s). For use with WEG CFW320 series AC drives. (1) 6.5ft/2m USB A to miniB-USB cable included.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW320-IOAENC</u></a>	\$76.00	WEG Electric CFW320 series encoder analog combo module, 400 kHz maximum switching frequency, 1-channel quadrature encoder input, Analog Input: 1-channel, Analog Output: 2-channel. For use with WEG CFW320 series AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW320-IOAR</u></a>	\$75.00	WEG Electric CFW320 series relay/analog combo module, Analog Input: 1-channel, current/voltage, Analog Output: 1-channel, current/voltage, Discrete Output: 3-point, relay, (3) Form A (SPST) relays. For use with WEG CFW320 series AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW320-IODF</u></a>	\$62.00	WEG Electric CFW320 series pulse combo module, 3 kHz maximum switching frequency, 3 high-speed input point(s), sinking, single-ended encoder input(s), 3 high-speed output point(s), sourcing, single-ended output(s).	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW320-IODR</u></a>	\$58.00	WEG Electric CFW320 series discrete combo module, Input: 4-point, 24 VDC, sinking/sourcing, Output: 3-point, 250 VAC, relay, (3) Form A (SPST) relays, 5A/point. For use with WEG CFW320 series AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW320-IOP</u></a>	\$46.00	WEG Electric CFW320 series speed potentiometer module, enclosed, IP20, plastic housing. For use with WEG CFW320 series AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>MMF-UDRIVES</u></a>	\$112.00	WEG Electric CFW320 series flash memory module, for use with WEG CFW100, CFW300 and CFW320 series AC drives. (1) 3.2ft/1m miniB-USB cable included. (Requires three AAA batteries; not included.)	<a href="#"><u>PDF</u></a>
<b>EMI Input Filters</b>			
<a href="#"><u>CFW320-KFA-S1-S2</u></a>	\$48.00	WEG Electric EMI input filter, 1-phase, 7.3A, 35mm DIN rail mount, EMI/RFI filtering. For use with WEG CFW320AxxxSx 1-phase AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW320-KFA-T2</u></a>	\$89.00	WEG Electric EMI input filter, 3-phase, 7.3A, 35mm DIN rail mount, EMI/RFI filtering. For use with WEG CFW320AxxxT2 3-phase AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW320-KFA-T4</u></a>	\$89.00	WEG Electric EMI input filter, 3-phase, 4.8A, 35mm DIN rail mount, EMI/RFI filtering. For use with WEG CFW320AxxT4 3-phase AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW320-KFB-S2</u></a>	\$56.00	WEG Electric EMI input filter, 1-phase, 10A, 35mm DIN rail mount, EMI/RFI filtering. For use with WEG CFW320B10P0B2DB20 AC drive with 1-phase input power only.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW320-KFB-T2</u></a>	\$109.00	WEG Electric EMI input filter, 3-phase, 15.2A, 35mm DIN rail mount, EMI/RFI filtering. For use with WEG CFW320BxxxT2 3-phase AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW320-KFB-T4</u></a>	\$109.00	WEG Electric EMI input filter, 3-phase, 8.2A, 35mm DIN rail mount, EMI/RFI filtering. For use with WEG CFW320BxxxT4 3-phase AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW320-KFC-T4</u></a>	\$116.00	WEG Electric EMI input filter, 3-phase, 15A, 35mm DIN rail mount, EMI/RFI filtering. For use with WEG CFW320CxxxT4 3-phase AC drives.	<a href="#"><u>PDF</u></a>
<b>Remote Keypad</b>			
<a href="#"><u>CFW320-KHMIR</u></a>	\$136.00	WEG Electric CFW320 series remote serial HMI keypad, for use with WEG CFW320 series AC drives. (1) CFW320-CRS485 communication module, (1) 9.8ft/3m miniB-USB to miniB-USB cable and installation hardware for optional panel mounting included.	<a href="#"><u>PDF</u></a>
<b>Cooling Fans</b>			
<a href="#"><u>CFW300-FAN-B-T4</u></a>	\$27.00	WEG Electric CFW320 series main cooling fan, replacement, 50 x 50 x 15mm, 12 VDC. For use with WEG CFW320B4xx AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW300-FAN-A</u></a>	\$35.50	WEG Electric CFW300 series main cooling fan, replacement, 50 x 50 x 15mm, 12 VDC. For use with WEG CFW300Axxx AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW300-FAN-B</u></a>	\$35.50	WEG Electric CFW300 series main cooling fan, replacement, 50 x 50 x 15mm, 12 VDC. For use with WEG CFW300Bxxx AC drives.	<a href="#"><u>PDF</u></a>
<a href="#"><u>CFW300-FAN-C</u></a>	\$40.00	WEG Electric CFW320 series main cooling fan, replacement, 50 x 50 x 15mm, 12 VDC. For use with WEG CFW320C4xx AC drives.	<a href="#"><u>PDF</u></a>

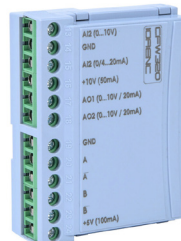
CFW320-CUSB



CFW320-CETH



CFW320-IOAENC



CFW320-IODR



CFW320-KFA-T2



CFW300-FAN-C



CFW320-CRS485





# CFW320 AC Drives – Accessories

## Additional Accessories Recommended for WEG CFW320 AC Drives

Drive Part #	Input Ø/V	C/B Amp	Motor Protector <sup>1)</sup>		Fuse <sup>1)</sup>			Filter	
			WEG <sup>3)</sup> 4)	Fuji	Amp	Class J <sup>2)</sup>	Class J Holder	WEG EMI/RFI	Roxburgh EMI
<a href="#">CFW320A01P6S1NB20</a>	1Ø 120VAC	10	<a href="#">MPW40-3-U010</a>	<a href="#">BM3RHB-013</a> <a href="#">BM3VHB-013</a>	20	<a href="#">JHL20</a> <a href="#">JHL20-1</a>	JM60030-1CR	CFW320-KFA-S1-S2	n/a
<a href="#">CFW320A02P6S1NB20</a>		16	<a href="#">MPW40-3-U016</a>	<a href="#">BM3RHB-020</a> <a href="#">BM3VHB-020</a>	20	<a href="#">JHL20</a> <a href="#">JHL20-1</a>	JM60030-1CR	CFW320-KFA-S1-S2	n/a
<a href="#">CFW320A04P2S1NB20</a>		20	<a href="#">MPW40-3-U020</a>	<a href="#">BM3RHB-025</a> <a href="#">BM3VHB-025</a>	35	<a href="#">JHL35</a> <a href="#">JHL35-1</a>	JM60060-1CR	CFW320-KFA-S1-S2	n/a
<a href="#">CFW320A06P0S1NB20</a>		32	<a href="#">MPW40-3-U032</a>	<a href="#">BM3VHB-040</a>	35	<a href="#">JHL35</a> <a href="#">JHL35-1</a>	JM60060-1CR	CFW320-KFA-S1-S2	n/a
<a href="#">CFW320A01P6S2NB20</a>	1Ø 240VAC	6.3	<a href="#">MPW40-3-D063</a>	<a href="#">BM3RHB-010</a> <a href="#">BM3VHB-013</a>	6	<a href="#">JHL6</a> <a href="#">JHL6-1</a>	JM60030-2CR	CFW320-KFA-S1-S2	n/a
<a href="#">CFW320A02P6S2NB20</a>		10	<a href="#">MPW40-3-U010</a>	<a href="#">BM3RHB-013</a> <a href="#">BM3VHB-013</a>	10	<a href="#">JHL10</a> <a href="#">JHL10-1</a>	JM60030-2CR	CFW320-KFA-S1-S2	n/a
<a href="#">CFW320A04P2S2NB20</a>		16	<a href="#">MPW40-3-U016</a>	<a href="#">BM3RHB-020</a> <a href="#">BM3VHB-020</a>	15	<a href="#">JHL15</a> <a href="#">JHL15-1</a>	JM60030-2CR	CFW320-KFA-S1-S2	n/a
<a href="#">CFW320A06P0S2NB20</a>		16	<a href="#">MPW40-3-U016</a>	<a href="#">BM3RHB-020</a> <a href="#">BM3VHB-020</a>	20	<a href="#">JHL20</a> <a href="#">JHL20-1</a>	JM60030-2CR	CFW320-KFA-S1-S2	n/a
<a href="#">CFW320A07P3S2NB20</a>		20	<a href="#">MPW40-3-U020</a>	<a href="#">BM3RHB-025</a> <a href="#">BM3VHB-025</a>	25	<a href="#">JHL25</a> <a href="#">JHL25-1</a>	JM60030-2CR	CFW320-KFA-S1-S2	n/a
<a href="#">CFW320A01P6T2NB20</a>	3Ø 240VAC	2.5	<a href="#">MPW40-3-D025</a>	<a href="#">BM3RHB-004</a>	6	<a href="#">JHL6</a> <a href="#">JHL6-1</a>	JM60030-3CR	CFW320-KFA-T2	<a href="#">KMF306A</a> <a href="#">MIF310</a>
<a href="#">CFW320A02P6T2NB20</a>		6.3	<a href="#">MPW40-3-D063</a>	<a href="#">BM3RHB-010</a> <a href="#">BM3VHB-010</a>	10	<a href="#">JHL10</a> <a href="#">JHL10-1</a>	JM60030-3CR	CFW320-KFA-T2	<a href="#">KMF310A</a> <a href="#">MIF310</a>
<a href="#">CFW320A04P2T2NB20</a>		10	<a href="#">MPW40-3-U010</a>	<a href="#">BM3RHB-013</a> <a href="#">BM3VHB-013</a>	15	<a href="#">JHL15</a> <a href="#">JHL15-1</a>	JM60030-3CR	CFW320-KFA-T2	<a href="#">KMF318A</a> <a href="#">MIF316</a>
<a href="#">CFW320A06P0T2NB20</a>		10	<a href="#">MPW40-3-U010</a>	<a href="#">BM3RHB-013</a> <a href="#">BM3VHB-013</a>	20	<a href="#">JHL20</a> <a href="#">JHL20-1</a>	JM60030-3CR	CFW320-KFA-T2	<a href="#">KMF318A</a> <a href="#">MIF316</a>
<a href="#">CFW320A07P3T2NB20</a>		16	<a href="#">MPW40-3-U016</a>	<a href="#">BM3RHB-020</a> <a href="#">BM3VHB-020</a>	25	<a href="#">JHL25</a> <a href="#">JHL25-1</a>	JM60030-3CR	CFW320-KFA-T2	<a href="#">KMF318A</a> <a href="#">MIF316</a>
<a href="#">CFW320B10P0B2DB20</a>	1Ø 240VAC	25	<a href="#">MPW40-3-U025</a>	<a href="#">BM3RHB-032</a> <a href="#">BM3VHB-032</a>	35	<a href="#">JHL35</a> <a href="#">JHL35-1</a>	JM60060-3CR	CFW320-KFB-S2	n/a
<a href="#">CFW320B15P2T2DB20</a>		25	<a href="#">MPW40-3-U025</a>	<a href="#">BM3RHB-032</a> <a href="#">BM3VHB-032</a>	35	<a href="#">JHL35</a> <a href="#">JHL35-1</a>	JM60060-3CR	CFW320-KFB-T2	<a href="#">KMF336A</a> <a href="#">MIF330B</a>
<a href="#">CFW320A01P1T4NB20</a>		25	<a href="#">MPW40-3-U025</a>	<a href="#">BM3RHB-032</a> <a href="#">BM3VHB-032</a>	30	<a href="#">JHL30</a> <a href="#">JHL30-1</a>	JM60030-3CR	CFW320-KFB-T2	<a href="#">KMF336A</a> <a href="#">MIF330B</a>
<a href="#">CFW320A01P1T4NB20</a>		1.6	<a href="#">MPW40-3-D016</a>	<a href="#">BM3RHB-2P5</a>	3	<a href="#">JHL3</a> <a href="#">JHL3-1</a>	JM60030-3CR	CFW320-KFA-T4	<a href="#">KMF336A</a> <a href="#">MIF330B</a>
<a href="#">CFW320A02P6T4NB20</a>		4	<a href="#">MPW40-3-U004</a>	<a href="#">BM3RHB-6P3</a>	6	<a href="#">JHL6</a> <a href="#">JHL6-1</a>	JM60030-3CR	CFW320-KFA-T4	<a href="#">KMF306A</a> <a href="#">MIF310</a>
<a href="#">CFW320A03P5T4NB20</a>	3Ø 240VAC	6.3	<a href="#">MPW40-3-D063</a>	<a href="#">BM3RHB-010</a> <a href="#">BM3VHB-010</a>	10	<a href="#">JHL10</a> <a href="#">JHL10-1</a>	JM60030-3CR	CFW320-KFA-T4	<a href="#">KMF310A</a> <a href="#">MIF310</a>
<a href="#">CFW320A04P8T4NB20</a>		15	<a href="#">MPW40-3-U010</a>	<a href="#">BM3RHB-013</a> <a href="#">BM3VHB-013</a>	15	<a href="#">JHL15</a> <a href="#">JHL15-1</a>	JM60030-3CR	CFW320-KFA-T4	<a href="#">KMF318A</a> <a href="#">MIF316</a>
<a href="#">CFW320B01P1T4DB20</a>		1.6	<a href="#">MPW40-3-D016</a>	<a href="#">BM3RHB-2P5</a>	3	<a href="#">JHL3</a> <a href="#">JHL3-1</a>	JM60030-3CR	CFW320-KFB-T4	<a href="#">KMF336A</a> <a href="#">MIF330B</a>
<a href="#">CFW320B02P6T4DB20</a>		4	<a href="#">MPW40-3-U004</a>	<a href="#">BM3RHB-6P3</a>	6	<a href="#">JHL6</a> <a href="#">JHL6-1</a>	JM60030-3CR	CFW320-KFB-T4	<a href="#">KMF336A</a> <a href="#">MIF330B</a>
<a href="#">CFW320B03P5T4DB20</a>		6.3	<a href="#">MPW40-3-D063</a>	<a href="#">BM3RHB-010</a> <a href="#">BM3VHB-010</a>	10	<a href="#">JHL10</a> <a href="#">JHL10-1</a>	JM60030-3CR	CFW320-KFB-T4	<a href="#">KMF310A</a> <a href="#">MIF310</a>
<a href="#">CFW320B04P8T4DB20</a>		10	<a href="#">MPW40-3-U010</a>	<a href="#">BM3RHB-013</a> <a href="#">BM3VHB-013</a>	15	<a href="#">JHL15</a> <a href="#">JHL15-1</a>	JM60030-3CR	CFW320-KFB-T4	<a href="#">KMF318A</a> <a href="#">MIF316</a>
<a href="#">CFW320B07P6T4DB20</a>		16	<a href="#">MPW40-3-U016</a>	<a href="#">BM3RHB-020</a> <a href="#">BM3VHB-013</a>	25	<a href="#">JHL25</a> <a href="#">JHL25-1</a>	JM60030-3CR	CFW320-KFB-T4	<a href="#">KMF318A</a> <a href="#">MIF316</a>
<a href="#">CFW320B07P6T4NB20</a>		16	<a href="#">MPW40-3-U016</a>	<a href="#">BM3RHB-020</a> <a href="#">BM3VHB-020</a>	25	<a href="#">JHL25</a> <a href="#">JHL25-1</a>	JM60030-3CR	CFW320-KFB-T4	<a href="#">KMF318A</a> <a href="#">MIF316</a>
<a href="#">CFW320C11P0T4DB20</a>		20	<a href="#">MPW40-3-U020</a>	<a href="#">BM3RHB-025</a> <a href="#">BM3VHB-025</a>	25	<a href="#">JHL25</a> <a href="#">JHL25-1</a>	JM60030-3CR	CFW320-KFC-T4	<a href="#">KMF325A</a> <a href="#">MIF323</a>
<a href="#">CFW320C11P0T4NB20</a>		20	<a href="#">MPW40-3-U020</a>	<a href="#">BM3RHB-025</a> <a href="#">BM3VHB-025</a>	25	<a href="#">JHL25</a> <a href="#">JHL25-1</a>	JM60030-3CR	CFW320-KFC-T4	<a href="#">KMF325A</a> <a href="#">MIF323</a>
<a href="#">CFW320C14P0T4DB20</a>		25	<a href="#">MPW40-3-U025</a>	<a href="#">BM3RHB-032</a> <a href="#">BM3VHB-032</a>	30	<a href="#">JHL30</a> <a href="#">JHL30-1</a>	JM60030-3CR	CFW320-KFC-T4	<a href="#">KMF336A</a> <a href="#">MIF330B</a>
<a href="#">CFW320C14P0T4NB20</a>		25	<a href="#">MPW40-3-U025</a>	<a href="#">BM3RHB-032</a> <a href="#">BM3VHB-032</a>	30	<a href="#">JHL30</a> <a href="#">JHL30-1</a>	JM60030-3CR	CFW320-KFC-T4	<a href="#">KMF336A</a> <a href="#">MIF330B</a>

1) Only valid for standard fault rating of 5kA. For High Fault ratings (65kA), please use current limiter "CLT32MPW40" in addition to "MPW40-x-xxxx + LST25 + TSB".

2) Only valid for standard fault rating of 5kA.

3) LST25 For use with MPW40 series manual motor protectors. Required when using a MPW40 in a UL Type E application 32A and less.

4) Optional TSB Short Circuit Alarm contact for MPW40 and MPW80 series motor protectors



# CFW320 AC Drives – Accessories

Additional Accessories Recommended for WEG CFW320 AC Drives - cont'd				
Drive Part #	Input Ø/V	ADC Input Line Reactor	ADC Output Line Reactor	3-Phase Output dV/dT Filter
<a href="#">CFW320A01P6S1NB20</a>	1Ø 120VAC	<a href="#">LR2-10P2-1PH-A</a>	<a href="#">LR2-20P2</a>	<a href="#">VTF-46-DE</a>
<a href="#">CFW320A02P6S1NB20</a>		<a href="#">LR2-10P5-1PH-A</a>	<a href="#">LR2-20P2</a>	<a href="#">VTF-246-CFG</a>
<a href="#">CFW320A04P2S1NB20</a>		<a href="#">LR2-11P5-1PH</a>	<a href="#">LR2-20P5</a>	<a href="#">VTF-24-FH</a>
<a href="#">CFW320A06P0S1NB20</a>		<a href="#">LR2-20P5-1PH</a>	<a href="#">LR2-20P7</a>	<a href="#">VTF-24-FH</a>
<a href="#">CFW320A01P6S2NB20</a>	1Ø 230VAC	<a href="#">LR2-20P5-1PH</a>	<a href="#">LR2-20P2</a>	<a href="#">VTF-46-DE</a>
<a href="#">CFW320A02P6S2NB20</a>		<a href="#">LR2-20P5-1PH</a>	<a href="#">LR2-20P2</a>	<a href="#">VTF-246-CFG</a>
<a href="#">CFW320A04P2S2NB20</a>		<a href="#">LR2-21P5-1PH-A</a>	<a href="#">LR2-20P5</a>	<a href="#">VTF-24-FH</a>
<a href="#">CFW320A06P0S2NB20</a>		<a href="#">LR2-22P0-1PH</a>	<a href="#">LR2-20P7</a>	<a href="#">VTF-24-FH</a>
<a href="#">CFW320A07P3S2NB20</a>		<a href="#">LR2-23P0-1PH</a>	<a href="#">LR2-20P7</a>	<a href="#">VTF-246-GJJ</a>
<a href="#">CFW320A01P6T2NB20</a>	3Ø 230VAC	<a href="#">LR2-20P2</a>	<a href="#">LR2-20P2</a>	<a href="#">VTF-46-DE</a>
<a href="#">CFW320A02P6T2NB20</a>		<a href="#">LR2-20P5</a>	<a href="#">LR2-20P2</a>	<a href="#">VTF-246-CFG</a>
<a href="#">CFW320A04P2T2NB20</a>		<a href="#">LR2-20P7</a>	<a href="#">LR2-20P5</a>	<a href="#">VTF-24-FH</a>
<a href="#">CFW320A06P0T2NB20</a>		<a href="#">LR2-20P7</a>	<a href="#">LR2-20P7</a>	<a href="#">VTF-24-FH</a>
<a href="#">CFW320A07P3T2NB20</a>		<a href="#">LR2-21P0</a>	<a href="#">LR2-20P7</a>	<a href="#">VTF-246-GJJ</a>
<a href="#">CFW320B10P0B2DB20</a>	1Ø 230VAC	<a href="#">LR-27P5</a>	<a href="#">LR2-21P5</a>	<a href="#">VTF-246-HKL</a>
	3Ø 230VAC	<a href="#">LR2-23P0</a>		
<a href="#">CFW320B15P2T2DB20</a>	3Ø 230VAC	<a href="#">LR-27P5</a>	<a href="#">LR2-21P5</a>	<a href="#">VTF-24-JL</a>
<a href="#">CFW320A01P1T4NB20</a>	3Ø 460 VA	<a href="#">LR2-40P7</a>	<a href="#">LR2-40P7</a>	<a href="#">VTF-46-DE</a>
<a href="#">CFW320A02P6T4NB20</a>		<a href="#">LR2-42P0</a>	<a href="#">LR2-41P5</a>	<a href="#">VTF-246-CFG</a>
<a href="#">CFW320A03P5T4NB20</a>		<a href="#">LR2-43P0</a>	<a href="#">LR2-43P0</a>	<a href="#">VTF-246-DGH</a>
<a href="#">CFW320A04P8T4NB20</a>		<a href="#">LR2-45P0</a>	<a href="#">LR2-43P0</a>	<a href="#">VTF-24-FH</a>
<a href="#">CFW320B01P1T4DB20</a>		<a href="#">LR2-40P7</a>	<a href="#">LR2-40P7</a>	<a href="#">VTF-46-DE</a>
<a href="#">CFW320B02P6T4DB20</a>		<a href="#">LR2-42P0</a>	<a href="#">LR2-41P5</a>	<a href="#">VTF-246-CFG</a>
<a href="#">CFW320B03P5T4DB20</a>		<a href="#">LR2-43P0</a>	<a href="#">LR2-43P0</a>	<a href="#">VTF-246-DGH</a>
<a href="#">CFW320B04P8T4DB20</a>		<a href="#">LR2-45P0</a>	<a href="#">LR2-43P0</a>	<a href="#">VTF-24-FH</a>
<a href="#">CFW320B07P6T4DB20</a>		<a href="#">LR2-47P5</a>	<a href="#">LR2-47P5</a>	<a href="#">VTF-246-HKL</a>
<a href="#">CFW320B07P6T4NB20</a>		<a href="#">LR2-47P5</a>	<a href="#">LR2-47P5</a>	<a href="#">VTF-246-HKL</a>
<a href="#">CFW320C11P0T4DB20</a>		<a href="#">LR2-4010</a>	<a href="#">LR2-4010</a>	<a href="#">VTF-246-HKL</a>
<a href="#">CFW320C11P0T4NB20</a>		<a href="#">LR2-4010</a>	<a href="#">LR2-4010</a>	<a href="#">VTF-246-HKL</a>
<a href="#">CFW320C14P0T4DB20</a>		<a href="#">LR-4015</a>	<a href="#">LR-4020</a>	<a href="#">VTF-24-JL</a>
<a href="#">CFW320C14P0T4NB20</a>		<a href="#">LR-4015</a>	<a href="#">LR-4020</a>	<a href="#">VTF-24-JL</a>



# CFW320 AC Drives – Accessories

## Braking Resistors for WEG CFW320 AC Drives

Dynamic braking absorbs the motor regeneration energy when the motor is decelerated faster than it would if it was allowed to coast to a stop. The regeneration energy is dissipated by braking resistors. The drive models listed in the table below have the braking function built-in and do not require a separate dynamic braking unit. The recommended open type or NEMA 1 type brake resistors available at AutomationDirect for each drive model are listed in the table below.

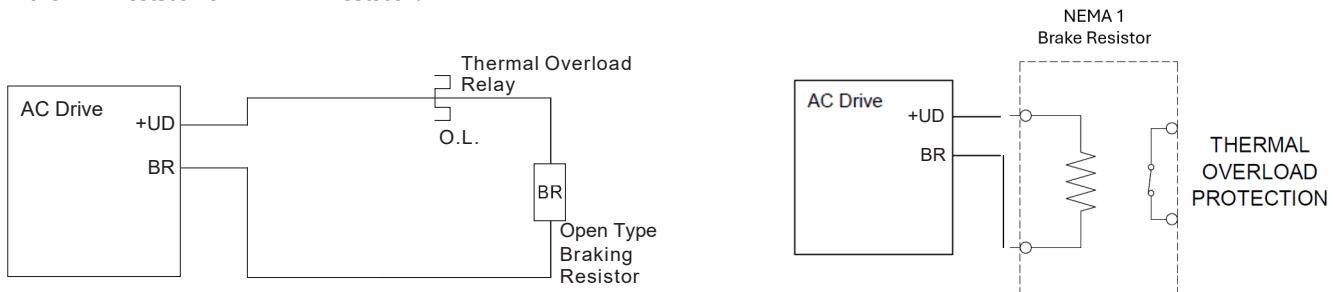
WEG CFW320 AC Drive Braking Component Selection*													
Drive Part #	Drive Ratings				Drive Brake Capacity - Max Torque			Open Type Braking Resistors			NEMA1 Resistors with Thermal Switch		
	Input Voltage Phases	Input Voltage (VAC)	Drive Rated Amps (A)	Motor Power (hp)	Minimum Resistor (Ω)	Max Current (A)	Peak Power (kW)	Part #	Qty.	Total Brake Current (A)	Part #	Qty.	Total Brake Current (A)
<a href="#">CFW320B10P0B2DB20</a>	1/3	230	10	3	39	11	4.7	<a href="#">GS-BR-400W040</a>	1	9.8	<a href="#">BR-N1-280W50</a>	1	7.8
<a href="#">CFW320B15P2T2DB20</a>	3		15.2	5				<a href="#">GS-BR-1K5W040</a>	1		<a href="#">BR-N1-1K5W40</a>	1	9.8
<a href="#">CFW320B01P1T4DB20</a>	3	460	1.6	0.5	180	4.4	3.4	<a href="#">GS-BR-300W250</a>	1	3.2	<a href="#">BR-N1-240W200</a>	1	4.0
<a href="#">CFW320B02P6T4DB20</a>			2.6	1					1			1	
<a href="#">CFW320B03P5T4DB20</a>			3.5	2					1			1	
<a href="#">CFW320B04P8T4DB20</a>			4.8	3	82	9.8	7.8	<a href="#">GS-BR-500W100</a>	1	7.9	<a href="#">BR-N1-500W130</a>	1	6.1
<a href="#">CFW320B07P6T4DB20</a>			7.6	4	68	11.8	9.4	<a href="#">GS-BR-750W140</a>	1	5.6	<a href="#">BR-N1-720W85</a>	1	9.3
<a href="#">CFW320C11P0T4DB20</a>			11	7.5	39	20.5	16.3	<a href="#">GS-BR-1K5W040</a>	1	19.8	<a href="#">BR-N1-1K5W40</a>	1	19.8
<a href="#">CFW320C14P0T4DB20</a>			14	10					1			1	

\*Note: Only the models listed are available with dynamic braking.

## Brake Wiring

Use your drive's braking component selection table to determine the appropriate brake resistor model and configuration for your drive. Refer to the diagrams below for examples on how to wire each possible configuration.

### Drive + 1 Resistor or NEMA1 Resistor:





# WEG CFW500 AC Drives – Introduction



## Overview

The CFW500 is a high-performance VFD for applications that require speed and torque control of three-phase induction motors. The drive supports many methods of control including scalar V/Hz, sensorless vector control, as well as closed-loop vector control which provides the ability to produce 100% torque at zero speed. It also has SoftPLC, which adds PLC (programmable logic controller) functions, safety functions (STO and SS1) making it easier to comply with machine and application safety requirements, and selectable plug-in modules that provide a flexible and optimized solution for any application.

CFW500 drives include built-in operator interface (HMI) with free WPS programming software for custom-tailored control schemes. A variety of plug-in option modules for additional I/O and communications protocols may be added to provide extended capabilities, making the CFW500 a flexible and cost effective solution for your variable-speed requirements.

## Features

- Single-phase and three-phase voltage supply
- DIN rail (35mm), A, B, and C frame, or surface mounting with screws
- Frame F/G flange mount capable and built-in dual DC bus chokes for harmonics reductions.
- Voltage range:
  - 1-phase/3-phase models: 200–240 VAC
  - 3-phase models: 200–240 VAC, 380–480 VAC
- Current/power range: up to 211A/112kW
- Control mode: Sensorless or closed loop vector control, VVW or Scalar V/F and permanent magnet motor control: VVW PM

- Switching frequency: 2.5, 5, 10, or 15kHz
- Output frequency range: 0–500 Hz; 0.1Hz resolution
- Overload Capacity (HD): 150% for 60sec every 10min; 200% for 3 sec every 10min

### Environmental

- Degree of protection: IP20 or IP66 (NEMA4X)
- Operating temperature:
  - CFW500-IP20, Frame A to E:** 14°F (-10°C) to 122°F (50°C) w/o derating. Up to 140°F (60°C) with derating.
  - CFW500-IP20, Frame F:** 14°F (-10°C) to 104°F (40°C) w/o derating. Up to 140°F (60°C) with derating.
  - CFW500-IP20, Frame G:** 14°F (-10°C) to 113°F (45°C) w/o derating. Up to 140°F (60°C) with derating.
  - CFW500-IP66:** 14°F (-10°C) to 104 °F(40°C) w/o derating. Up to 122°F (50°C) with derating.
- Altitude: 0 to 3300ft (1000m); up to 13,200 ft (4000m) with current derating (1% per 100m above 1000m)
- Humidity: 5 to 95% non-condensing

### Safety

- Integrated brake chopper (part numbers including "DB")
- Optional STO (Safe Torque Off) and SS1 (Safe Stop 1) fulfils requirements for safety performance SIL 3 / PL e, according to IEC 61800-5-2, EN ISO 13849-1, EN 6206, IEC 61508, and IEC 60204-1

### Convenience

- Local keypad supplied as standard
- Conformal Coating (Tropicalization) as standard, class 3C2 according to IEC 60721-3-3 and 3C3 as an option, to protect against corrosive gases in harsh environments
- cULus, TUV, CE

## Accessories

### Keypads

- Remote keypad with mounting hardware
- Advanced text remote keypad with mounting hardware

### Communication Modules

- RS-232 serial communication module (Modbus RTU)
- RS-485 serial communication module (Modbus RTU)
- USB communication module and cable
- Modbus TCP communication module
- EtherNet/IP communication module

### Expansion Modules

- IOD expansion module - (8 DI, 1 AI, 1 AO, 1 DOR, 4 DOT, 1 RS485, 10VDC, 24VDC)
- IOAD expansion module (6 DI, 3 AI, 2 AO, 1 DOR, 3 DOT, 1 RS485, 10VDC, 24VDC)
- IOR-B expansion module (5 DI, 1 AI, 1 AO, 4 DOR, 1 DOT, 1 RS485, 10VDC, 24VDC)
- Incremental encoder module (A/A - B/B)
- Flash memory module

## Typical Applications

- Blenders / Mixers
- Centrifugal pumps
- Centrifuges
- Commercial dryers
- Compressors
- Conveyors
- Fans / Blowers
- Granulators
- Roller tables
- Rotary filters

WEG CFW500 Series AC Drives																						
Motor Rating	hp	0.25	0.33	0.5	0.75	1	1.5	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	150
	kW	0.2	0.4	0.4	0.56	0.75	1.3	1.5	2.2	3.7	5.5	7.5	11.0	15.0	18.7	22.0	29.8	37.3	44.8			
230V 1-Phase Input / 230V 3-Phase Output		★		★		★	★	★	★													
230V 3-Phase Input / 230V 3-Phase Output		★		★		★	★	★	★	★	★	✓	✓	✓	✓	✓						
460V 3-Phase Input / 460V 3-Phase Output			★	✗	✓	✓		★	★	★	★	★	★	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ = IP20 model available

✗ = IP66 models available

★ = IP20 and IP66 models available





# CFW500 AC Drives – Selection

## Selecting the Proper Drive Rating

Selecting the Proper Drive Rating													
<b>Determine Motor Voltage and Full-Load Amperage (FLA)</b>													
Motor voltage and FLA are specified on the nameplate of the motor. <b>NOTE:</b> FLA of motors that have been rewound may be higher than stated.													
<b>Determine Motor Overload Requirements</b>													
Many applications experience temporary overload conditions due to starting requirements or impact loading. Most AC drives are designed to operate at 150% overload for 60 seconds. If the application requires an overload greater than 150% or longer than 60 seconds, the AC drive must be oversized. <b>NOTE:</b> Applications that require replacement of existing motor starters with AC drives may require up to 600% overload.													
<b>Determine Application Type: Constant Torque or Variable Torque</b>													
This torque requirement has a direct effect on which drive to select. Variable Torque applications are generally easier to start (typically fans and pumps). Most other applications outside fans and pumps fall into the Constant Torque category (machine control, conveyors, etc.). If you are unsure of the application, assume Constant Torque. The specification, derating, and selection tables are generally segregated by Constant Torque and Variable Torque.													
<b>Installation Altitude</b>													
AC drives rely on air flow for cooling. As the altitude increases, the air becomes less dense, and this drop in air density decreases the cooling properties of the air. Therefore, the AC drive must be oversized to compensate for the decrease in cooling. WEG CFW500 drives are designed to operate at 100% capacity at altitudes up to 1000 meters [3281ft]. <b>NOTE:</b> For use above 1000m [3281ft], the AC drive must be derated as described below.													
<b>Derate Output Current Based on Altitude Above 1000 Meters [3281 feet]</b>													
<ul style="list-style-type: none"> <li>• If the AC drive is installed at an altitude of 0–1000m [3281ft], follow normal operation restrictions.</li> <li>• If installed at an altitude of 1000–4000m [3281–13123 ft], decrease 1% of the rated voltage (240V for 200–240V models, 480V for 380–480V models, and 600V for 500–600V models) for every 100m [328ft] increase in altitude.</li> <li>• Maximum altitude is 4000m [13123ft]. If installation at an altitude higher than 4000m [13123ft] is required, please contact AutomationDirect.</li> </ul>													
<p style="text-align: center;"><b>Derating for Altitude</b></p> <table border="1"> <caption>Derating for Altitude Data</caption> <thead> <tr> <th>Altitude (m)</th> <th>Output Current Rating (%)</th> </tr> </thead> <tbody> <tr><td>0</td><td>100</td></tr> <tr><td>1000</td><td>100</td></tr> <tr><td>2000</td><td>90</td></tr> <tr><td>3000</td><td>80</td></tr> <tr><td>4000</td><td>70</td></tr> </tbody> </table>		Altitude (m)	Output Current Rating (%)	0	100	1000	100	2000	90	3000	80	4000	70
Altitude (m)	Output Current Rating (%)												
0	100												
1000	100												
2000	90												
3000	80												
4000	70												



# CFW500 AC Drives – Selection

## Selecting the Proper Drive Rating, continued

### Determine Maximum Enclosure Internal Temperature

AC drives generate a significant amount of heat and can cause the internal temperature of an enclosure to exceed the rating of the WEG CFW500 drive, even when the ambient temperature is less than 104°F [40°C]. Enclosure ventilation and/or cooling may be required to reduce maximum internal temperature to 104°F [40°C] or less. Ambient temperature measurements/calculations should be made for the maximum expected temperature.

**NOTE:** For use above 104°F [40°C], the AC drive must be derated as described below.

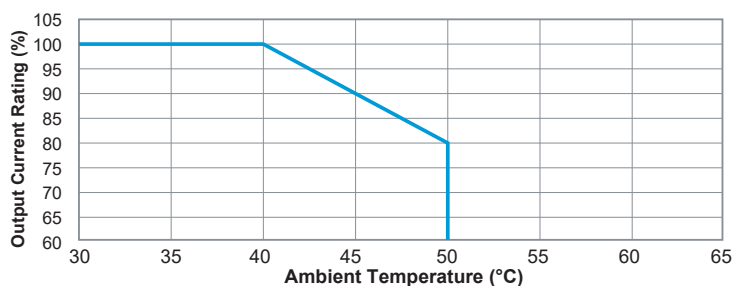
**For IP20, Frame A to Frame E (side-by-side mounting), NEMA1 Kit, or IP66 Drives, Derate Output Current Based on Temperature Above 104°F [40°C]**

#### Drive Derating by Temperature

##### Derating

When the WEG CFW500 drive is operating at rated current, the ambient temperature has to be between -10°C and +40°C [14°F and 104°F]. When ambient temperature exceeds 40°C [104°F], decrease the rated current by 2% for every 1°C [1.8°F] temperature increase. Maximum allowable temperature is 50°C [122°F].

**Ambient Temperature Derating for Frame A–E**



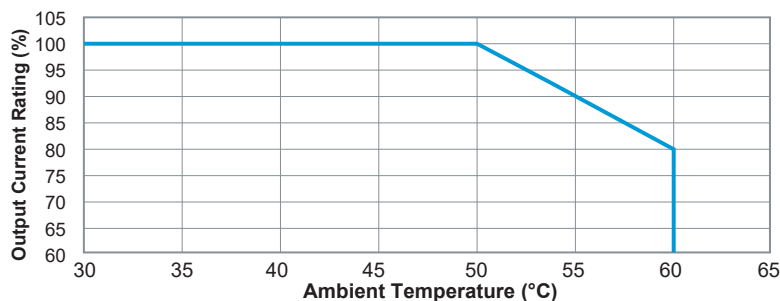
**For IP20, Frame A to Frame E (with minimum clearance), Derate Output Current Based on Temperature Above 122°F [50°C]**

#### Drive Derating by Temperature

##### Derating

When the WEG CFW500 IP20 frame size A-E (with proper clearance) drive is operating at rated current, the ambient temperature has to be between -10°C and +50°C [14°F and 122°F]. When ambient temperature exceeds 50°C [122°F], decrease the rated current by 2% for every 1°C [1.8°F] temperature increase up to 60°C [140°F].

**Ambient Temperature Derating for Frame A–E (with clearance)**





# CFW500 AC Drives – Selection

## Selecting the Proper Drive Rating, continued

### Determine Maximum Enclosure Internal Temperature

AC drives generate a significant amount of heat and can cause the internal temperature of an enclosure to exceed the rating of the WEG CFW500 drive, even when the ambient temperature is less than 104°F [40°C]. Enclosure ventilation and/or cooling may be required to reduce maximum internal temperature to 104°F [40°C] or less. Ambient temperature measurements/calculations should be made for the maximum expected temperature.

**NOTE:** For use above 104°F [40°C], the AC drive must be derated as described below.

**For Frame F, Derate Output Current Based on Temperature Above 104°F [40°C] or 122°F [50°C]**

**For Frame G, Derate Output Current Based on Temperature Above 113°F [45°C] or 122°F [50°C]**

### Drive Derating by Temperature

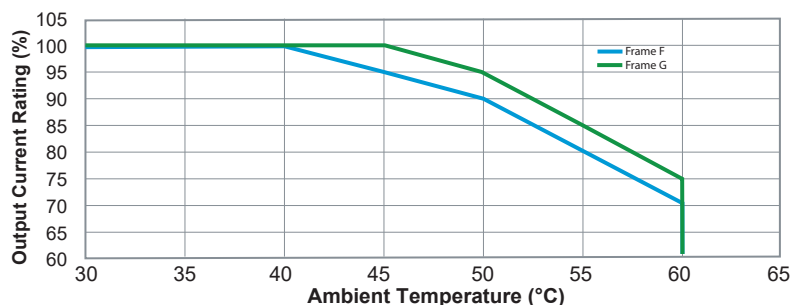
#### Derating

When WEG CFW500 frame size F drives are operating at rated current, the ambient temperature has to be between -10°C and +40°C [14°F and 104°F]. When ambient temperature exceeds 40°C [104°F], decrease the rated current by 1% for every 1°C [1.8°F] temperature increase up to 50°C [122°F].

When WEG CFW500 frame size G drives are operating at rated current, the ambient temperature has to be between -10°C and +45°C [14°F and 113°F]. When ambient temperature exceeds 45°C [113°F], decrease the rated current by 1% for every 1°C [1.8°F] temperature increase up to 50°C [122°F].

For both Frame F and G, when ambient temperature exceeds 50°C [122°F], decrease the rated current by 2% for every 1°C [1.8°F] temperature increase. Maximum allowable temperature is 60°C [140°F].

**Ambient Temperature Derating for Frame F-G**





# CFW500 AC Drives – Selection

## Selecting the Proper Drive Rating, continued

### Derate Output Current Based on Carrier Frequency (if necessary)

#### Carrier Frequency Effects

AC Drives rectify the incoming 50 or 60Hz line power resulting in DC power at 0Hz. The resulting DC power is then pulse-width modulated and supplied to the motor by the drive's power electronics. IGBTs invert the DC power, simulating a sine wave at the desired frequency (that's what allows variable speed in AC induction motors). The speed at which the IGBTs are turned ON and OFF is called the Carrier Frequency. In WEG CFW500 drives, the Carrier Frequency can range from 2kHz to 15kHz. Though Carrier Frequency can be adjusted, there are trade-offs between high Carrier Frequencies and low Carrier Frequencies.

#### Benefits of Higher Carrier Frequencies:

- Better efficiency (lower harmonic losses) in the motor
- Lower audible noise

#### Benefits of Lower Carrier Frequencies:

- Better efficiency in the drive
- Lower EMI (electrical noise)
- Reduced reflective wave peak voltage

As a general rule, the Carrier Frequency should be set as low as possible without creating unacceptable audible noise in the motor. Smaller systems can have higher Carrier Frequencies, but larger drives (>20 or 30hp) should not have Carrier Frequencies set higher than 6kHz. Heavy duty applications typically run around 2–4 kHz.

### Derating Tables

The table below shows the derating values for each model of WEG CFW500 drive.

#### Carrier Frequency Derating, IP20 Drives, A–E Frame

WEG MAT #	Model #	Frame	2.5 kHz	5.0 kHz	10.0 kHz	15.0 kHz
<a href="#">15570800</a>	CFW500A01P6B2NB20G2	A	1.6 A	1.6 A	1.6 A	1.6 A
<a href="#">15571879</a>	CFW500A02P6B2NB20G2	A	2.6 A	2.6 A	2.6 A	2.6 A
<a href="#">15571881</a>	CFW500A04P3B2NB20G2	A	4.3 A	4.3 A	3.5 A	2.8 A
<a href="#">15572625</a>	CFW500A07P0T2NB20G2	A	7A	7A	5.8 A	4.9 A
<a href="#">15572689</a>	CFW500A09P6T2NB20G2	A	9.6 A	9.6 A	8A	6.7 A
<a href="#">15574655</a>	CFW500B07P3B2DB20G2	B	7.3 A	7.3 A	6.1 A	5.1 A
<a href="#">15575067</a>	CFW500B10P0B2DB20G2	B	10A	10A	8A	6.5 A
<a href="#">15575202</a>	CFW500B16P0T2DB20G2	B	16A	16A	12.7 A	10.1 A
<a href="#">15575701</a>	CFW500C24P0T2DB20G2	C	24A	25A	19A	16A
<a href="#">15575716</a>	CFW500D28P0T2DB20G2	D	28A	28A	22A	18A
<a href="#">15576540</a>	CFW500D47P0T2DB20G2	D	47A	47A	36A	30A
<a href="#">15577077</a>	CFW500E56P0T2DB20G2	E	56A	56A	43A	33A
<a href="#">15572819</a>	CFW500A01P0T4NB20G2	A	1A	1A	1A	1A
<a href="#">15572908</a>	CFW500A01P6T4NB20G2	A	1.6 A	1.6 A	1.6 A	1.6 A
<a href="#">15573714</a>	CFW500A02P6T4NB20G2	A	2.6 A	2.6 A	2.6 A	2A
<a href="#">15573819</a>	CFW500A04P3T4NB20G2	A	4.3 A	4.3 A	2.9 A	2A
<a href="#">15573823</a>	CFW500A06P1T4NB20G2	A	6.1 A	6.1 A	4.3 A	3.1 A
<a href="#">15575568</a>	CFW500B02P6T4DB20G2	B	2.6 A	2.6 A	2.6 A	2A
<a href="#">15575577</a>	CFW500B04P3T4DB20G2	B	4.3 A	4.3 A	2.9 A	2A
<a href="#">15575665</a>	CFW500B06P5T4DB20G2	B	6.5 A	6.5 A	4.5 A	3.3 A
<a href="#">15575699</a>	CFW500B10P0T4DB20G2	B	10A	10A	6.5 A	4.3 A
<a href="#">15575707</a>	CFW500C14P0T4DB20G2	C	14A	14A	10A	7A
<a href="#">15575711</a>	CFW500C16P0T4DB20G2	C	16A	16A	10A	7A
<a href="#">15576919</a>	CFW500D24P0T4DB20G2	D	24A	24A	15A	12A
<a href="#">15577021</a>	CFW500D31P0T4DB20G2	D	31A	31A	16A	13A
<a href="#">15577211</a>	CFW500E39P0T4DB20G2	E	39A	39A	30A	19A
<a href="#">15577452</a>	CFW500E49P0T4DB20G2	E	49A	49A	30A	20A

#### Carrier Frequency Derating, IP20 Drives, F–G Frame

WEG MAT #	Model #	Frame	2.5 kHz		4.0 kHz		5.0 kHz		10.0 kHz	
			ND	HD	ND	HD	ND	HD	ND	HD
<a href="#">15342437</a>	CFW500F77P0T2DB20G2	F	77A	64A	77A	64A	–	–	42.3 A	36.6 A
<a href="#">15342760</a>	CFW500F88P0T2DB20G2	F	88A	75A	88A	75A	–	–	52.6 A	43.7 A
<a href="#">15342909</a>	CFW500F105T2DB20G2	F	105A	88A	88A	73A	–	–	52.6 A	43.7 A
<a href="#">15733937</a>	CFW500F77P0T4DB20G2	F	77A	61A	77A	61A	–	–	42.3 A	36.6 A
<a href="#">15734064</a>	CFW500F88P0T4DB20G2	F	88A	73A	88A	73A	–	–	52.6 A	43.7 A
<a href="#">15734119</a>	CFW500F105T4DB20G2	F	105A	88A	88A	73A	–	–	52.6 A	43.7 A
<a href="#">15448371</a>	CFW500G0142T4DB20G2	G	142A	115A	–	–	111A	90A	–	–
<a href="#">15448372</a>	CFW500G0180T4DB20G2	G	180A	142A	–	–	140A	111A	–	–
<a href="#">15448373</a>	CFW500G0211T4DB20G2	G	211A	180A	–	–	164A	140A	–	–



# CFW500 AC Drives – Selection

## Selecting the Proper Drive Rating, continued

Derate Output Current Based on Carrier Frequency (if necessary)					
Derating Tables, continued					
The table below shows the derating values for each model of WEG CFW500 drive.					
Carrier Frequency Derating, IP66 Drives with Disconnect					
WEG MAT #	Model #	2.5 kHz	5.0 kHz	10.0 kHz	15.0 kHz
<a href="#">14990863</a>	CFW500A01P6B2DB66DSG2	1.6 A	1.6 A	1.6 A	1.6 A
<a href="#">14991103</a>	CFW500A02P6B2DB66DSG2	2.6 A	2.6 A	2.6 A	2.6 A
<a href="#">14991753</a>	CFW500A04P3B2DB66DSG2	4.3 A	4.3 A	3.5 A	2.8 A
<a href="#">14938005</a>	CFW500A07P3B2DB66DSG2	7.3 A	7.3 A	6.1 A	5.1 A
<a href="#">14938047</a>	CFW500A10P0B2DB66DSG2	10A	10A	8A	6.7 A
<a href="#">14938113</a>	CFW500A16P0T2DB66DSG2	16A	16A	12.7 A	10.1 A
<a href="#">14975838</a> *	CFW500B24P0T2DB66DSG2	24A	24A @ 4.0 kHz	19A	16A
<a href="#">14938655</a>	CFW500B28P0T2DB66DSG2	28A	28A	22A	18A
<a href="#">14991953</a>	CFW500A01P0T4DB66DSG2	1A	1A	1A	1A
<a href="#">14992148</a>	CFW500A01P6T4DB66DSG2	1.6 A	1.6 A	1.6 A	1.6 A
<a href="#">14976517</a>	CFW500A02P6T4DB66DSG2	2.6 A	2.6 A	2.6 A	2A
<a href="#">14976809</a>	CFW500A04P3T4DB66DSG2	4.3 A	4.3 A	2.9 A	2A
<a href="#">14977065</a>	CFW500A06P5T4DB66DSG2	6.5 A	6.5 A	4.5 A	3.3 A
<a href="#">14977266</a>	CFW500A10P0T4DB66DSG2	10A	10A	6.5 A	4.3 A
<a href="#">14977397</a>	CFW500B14P0T4DB66DSG2	14A	14A	10A	7A
<a href="#">14977556</a>	CFW500B16P0T4DB66DSG2	16A	16A	10A	7A
<a href="#">14978365</a>	CFW500B24P0T4DB66DSG2	24A	24A	15A	12A
<a href="#">14978573</a>	CFW500B31P0T4DB66DSG2	31A	31A	16A	13A
Carrier Frequency Derating, IP66 Drives, No Disconnect					
WEG MAT #	Model #	2.5 kHz	5.0 kHz	10.0 kHz	15.0 kHz
<a href="#">14989840</a>	CFW500A01P6B2DB66G2	1.6 A	1.6 A	1.6 A	1.6 A
<a href="#">14990985</a>	CFW500A02P6B2DB66G2	2.6 A	2.6 A	2.6 A	2.6 A
<a href="#">14991517</a>	CFW500A04P3B2DB66G2	4.3 A	4.3 A	3.5 A	2.8 A
<a href="#">14937890</a>	CFW500A07P3B2DB66G2	7.3 A	7.3 A	6.1 A	5.1 A
<a href="#">14938041</a>	CFW500A10P0B2DB66G2	10A	10A	8A	6.7 A
<a href="#">14938111</a>	CFW500A16P0T2DB66G2	16A	16A	12.7 A	10.1 A
<a href="#">14975783</a> *	CFW500B24P0T2DB66G2	24A	24A @ 4.0 kHz	19A	16A
<a href="#">14938547</a>	CFW500B28P0T2DB66G2	28A	28A	22A	18A
<a href="#">14991899</a>	CFW500A01P0T4DB66G2	1A	1A	1A	1A
<a href="#">14992113</a>	CFW500A01P6T4DB66G2	1.6 A	1.6 A	1.6 A	1.6 A
<a href="#">14975888</a>	CFW500A02P6T4DB66G2	2.6 A	2.6 A	2.6 A	2A
<a href="#">14976683</a>	CFW500A04P3T4DB66G2	4.3 A	4.3 A	2.9 A	2A
<a href="#">14976814</a>	CFW500A06P5T4DB66G2	6.5 A	6.5 A	4.5 A	3.3 A
<a href="#">14977261</a>	CFW500A10P0T4DB66G2	10A	10A	6.5 A	4.3 A
<a href="#">14977391</a>	CFW500B14P0T4DB66G2	14A	14A	10A	7A
<a href="#">14977552</a>	CFW500B16P0T4DB66G2	16A	16A	10A	7A
<a href="#">14977629</a>	CFW500B24P0T4DB66G2	24A	24A	15A	12A
<a href="#">14978548</a>	CFW500B31P0T4DB66G2	31A	31A	16A	13A
* Note: These models provide the listed carrier frequency derating at 4.0 kHz rather than 5.0 kHz.					





# CFW500 AC Drives – Selection

## WEG CFW500 Drive Model Selection Tables

NOTE: For all model specifications, HD = Heavy Duty, ND = Normal Duty

WEG CFW500 IP20 240VAC Drives Selection Specifications																	
WEG MAT #	Model #	Price	Applicable Motor <sup>1,2</sup>		Drive Output		Drive Input		Input Protection		Drive		Dynamic Braking	Drawing Link			
			Maximum Power		Nominal Phase / Voltage	Rated Current <sup>3</sup> (A)	Nominal Phase / Voltage	Nominal Phase / Voltage	Rated Current (A)	Circuit Breaker (A)	Fuse <sup>4</sup> (A)	Weight (kg) [lb]			Frame Size		
			(hp)	(kW)													
<a href="#">15570800</a>	CFW500A01P6B2NB20G2	\$232.00	0.25	0.18	3Ph/ 230VAC	1.6	3Ph/ 230VAC	1Ph or 3Ph/ 230VAC	4.0/2.0 <sup>5</sup>	5.5/2.5	20	0.8 [1.76]	A	N	<a href="#">PDF</a>		
<a href="#">15571879</a>	CFW500A02P6B2NB20G2	\$238.00	0.50	0.37		2.6			6.5/3.1 <sup>5</sup>	9.0/4.0	20	0.8 [1.76]		N	<a href="#">PDF</a>		
<a href="#">15571881</a>	CFW500A04P3B2NB20G2	\$258.00	1	0.75		4.3			10.5/5.2 <sup>5</sup>	14/6.3	25/20	0.8 [1.76]		N	<a href="#">PDF</a>		
<a href="#">15574655</a>	CFW500B07P3B2DB20G2	\$346.00	2	1.50		7.3			17/8.6 <sup>5</sup>	25/12	40/20	1.2 [2.65]	B	Y	<a href="#">PDF</a>		
<a href="#">15575067</a>	CFW500B10P0B2DB20G2	\$403.00	3	2.20		10			25/12 <sup>5</sup>	25/16	60/25	1.2 [2.65]		Y	<a href="#">PDF</a>		
<a href="#">15572625</a>	CFW500A07P0T2NB20G2	\$321.00	2	1.50		7		3Ph/ 230VAC	3Ph/ 230VAC	3Ph/ 230VAC	8.5 <sup>5</sup>	10	20	0.8 [1.76]	A	N	<a href="#">PDF</a>
<a href="#">15572689</a>	CFW500A09P6T2NB20G2	\$394.00	3	2.20		9.6					11.7 <sup>5</sup>	16	25	0.8 [1.76]		N	<a href="#">PDF</a>
<a href="#">15575202</a>	CFW500B16P0T2DB20G2	\$430.00	5	3.70		16					19.5 <sup>5</sup>	25	40	1.2 [2.65]	B	Y	<a href="#">PDF</a>
<a href="#">15575701</a>	CFW500C24P0T2DB20G2	\$728.00	7.5	5.50		24					29 <sup>5</sup>	32	60	2.0 [4.4]	C	Y	<a href="#">PDF</a>
<a href="#">15575716</a>	CFW500D28P0T2DB20G2	\$907.00	10	7.50		28					34.2	40	60	4.3 [9.47]	D	Y	<a href="#">PDF</a>
<a href="#">15576540</a>	CFW500D47P0T2DB20G2	\$1,484.00	15	11.00		47				57.3	65	60	4.3 [9.47]	Y		<a href="#">PDF</a>	
<a href="#">15577077</a>	CFW500E56P0T2DB20G2	\$1,724.00	20	15.00		56				64 (77-ND)	68.32	80	125	10 [22.05]	E	Y	<a href="#">PDF</a>
<a href="#">15342437</a>	CFW500F77P0T2DB20G2	\$2,117.00	20 (25-ND)	15 (18.65-ND)													
<a href="#">15342760</a>	CFW500F88P0T2DB20G2	\$2,652.00	25 (30-ND)	18.65 (22-ND)		75 (88-ND)											
<a href="#">15342909</a>	CFW500F0105T2DB20G2	\$3,596.00	30 (40-ND)	22 (30-ND)		88 (105-ND)										Y	<a href="#">PDF</a>

1) For use with three-phase motors only.

2) The power values for the maximum applicable motor shown are reference values and are valid for WEG three-phase, four-pole induction motors with power supply of 230VAC. The proper sizing of the CFW500 drive must be determined as a function of the rated current of the motor being used.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.

4) For UL508C compliance, use UL fuse type J.

5) UL Type E Starter consisting of WEG MPW40 (Manual Motor Protector) + CLT (current Limiter) + LST (line side Terminal block) + TSB (Trip indicating unit)



# CFW500 AC Drives – Specifications

## WEG CFW500 Drive Model Selection Tables, continued

NOTE: For all model specifications, HD = Heavy Duty, ND = Normal Duty

WEG CFW500 IP20 480VAC Drives Selection Specifications																
WEG MAT #	Model #	Price	Applicable Motor <sup>1,2</sup>		Nominal Phase / Voltage	Drive Output (HD)		Nominal Phase / Voltage	Drive Input		Input Protection		Drive		Dynamic Braking	Drawing Link
			Maximum Power			Rated Current <sup>3</sup> (A)	Nominal Phase / Voltage		Nominal Phase / Voltage	Rated Current (A)	Circuit Breaker (A)	Fuse <sup>4</sup> (A)	Weight (kg) [lb]	Frame Size		
			(hp)	(kW)												
<a href="#">15572819</a>	CFW500A01P0T4NB20G2	\$297.00	0.33	0.18	3PH/ 480VAC	1	3PH/ 480VAC	3PH/ 480VAC	1.2	1.6 <sup>5</sup>	20	0.8 [1.76]	A	N	<a href="#">PDF</a>	
<a href="#">15572908</a>	CFW500A01P6T4NB20G2	\$308.00	0.75	0.37		1.6			1.9	2.5 <sup>5</sup>	20	0.8 [1.76]		N	<a href="#">PDF</a>	
<a href="#">15573714</a>	CFW500A02P6T4NB20G2	\$331.00	1	0.75		2.6			3.2	4 <sup>5</sup>	20	0.8 [1.76]		N	<a href="#">PDF</a>	
<a href="#">15573819</a>	CFW500A04P3T4NB20G2	\$408.00	2	1.5		4.3			5.2	6.3 <sup>5</sup>	20	0.8 [1.76]		N	<a href="#">PDF</a>	
<a href="#">15573823</a>	CFW500A06P1T4NB20G2	\$501.00	3	2.2		6.1			7.4	10 <sup>5</sup>	20	0.8 [1.76]		N	<a href="#">PDF</a>	
<a href="#">15575568</a>	CFW500B02P6T4DB20G2	\$361.00	1	0.75		2.6			3.2	4 <sup>5</sup>	20	1.2 [2.65]	B	Y	<a href="#">PDF</a>	
<a href="#">15575577</a>	CFW500B04P3T4DB20G2	\$455.00	2	1.5		4.3			5.2	6.3 <sup>5</sup>	20	1.2 [2.65]		Y	<a href="#">PDF</a>	
<a href="#">15575665</a>	CFW500B06P5T4DB20G2	\$544.00	3	2.2		6.5			7.8	10 <sup>5</sup>	20	1.2 [2.65]		Y	<a href="#">PDF</a>	
<a href="#">15575699</a>	CFW500B10P0T4DB20G2	\$615.00	5	3.7		10			12.0	16 <sup>5</sup>	25	1.2 [2.65]	Y	<a href="#">PDF</a>		
<a href="#">15575707</a>	CFW500C14P0T4DB20G2	\$763.00	7.5	5.5		14			17.1	20 <sup>5</sup>	35	2.0 [4.4]	C	Y	<a href="#">PDF</a>	
<a href="#">15575711</a>	CFW500C16P0T4DB20G2	\$826.00	10	7.5		16			19.5	25	35	2.0 [4.4]	C	Y	<a href="#">PDF</a>	
<a href="#">15576919</a>	CFW500D24P0T4DB20G2	\$1,137.00	15	11		24			29.3	40	60	4.3 [9.47]	D	Y	<a href="#">PDF</a>	
<a href="#">15577021</a>	CFW500D31P0T4DB20G2	\$1,420.00	20	15		31			37.8	50	60	4.3 [9.47]		Y	<a href="#">PDF</a>	
<a href="#">15577211</a>	CFW500E39P0T4DB20G2	\$1,707.00	25	18.5		39			47.6	50	80	10 [22.05]	E	Y	<a href="#">PDF</a>	
<a href="#">15577452</a>	CFW500E49P0T4DB20G2	\$2,149.00	30	22		49			59.8	65	100	10 [22.05]		Y	<a href="#">PDF</a>	
<a href="#">15733937</a>	CFW500F77P0T4DB20G2	\$2,907.00	40	30		60			64.66	80	125	26 [57.3]	F	Y	<a href="#">PDF</a>	
<a href="#">15734064</a>	CFW500F88P0T4DB20G2	\$3,723.00	50	37		73			77.38	100	125	26 [57.3]		Y	<a href="#">PDF</a>	
<a href="#">15734119</a>	CFW500F105T4DB20G2	\$4,539.00	60	45		88			93.28	125	125	26 [57.3]		Y	<a href="#">PDF</a>	
<a href="#">15448371</a>	CFW500G0142T4DB20G2	\$5,349.00	75	55		115			110.4	175	300	52 [114.64]	G	Y	<a href="#">PDF</a>	
<a href="#">15448372</a>	CFW500G0180T4DB20G2	\$6,554.00	100	75		142			136.3	225	300	52 [114.64]		Y	<a href="#">PDF</a>	
<a href="#">15448373</a>	CFW500G0211T4DB20G2	\$7,603.00	150	110		180			172.8	250	300	52 [114.64]		Y	<a href="#">PDF</a>	

1) For use with three-phase motors only.

2) The power values for the maximum applicable motor shown are reference values and are valid for WEG three-phase, four-pole induction motors with power supply of 230VAC. The proper sizing of the CFW500 drive must be determined as a function of the rated current of the motor being used.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.

4) For UL508C compliance, use UL fuse type J.

5) UL Type E Starter consisting of WEG MPW40 (Manual Motor Protector) + CLT (current Limiter) + LST (line side Terminal block) + TSB (Trip indicating unit)



# CFW500 AC Drives – Specifications

## WEG CFW500 Drive Model Selection Tables, continued

NOTE: For all model specifications, HD = Heavy Duty, ND = Normal Duty

WEG CFW500 IP66 240–480 VAC Drives Selection Specifications																
WEG MAT #	Model #	Price	Applicable Motor <sup>1,2</sup>		Drive Output		Drive Input		Input Protection		Drive		Dynamic Braking	Disconnects	Drawing Link	
			Maximum Power		Nominal Phase / Voltage	Rated Current <sup>3</sup> (A)	Nominal Phase / Voltage	Nominal Phase / Voltage	Rated Current (A)	Circuit Breaker (A)	Fuse <sup>4</sup> (A)	Weight (kg) [lb]				Frame Size
			(hp)	(kW)												
With Integrated Lockable Disconnect																
<a href="#">14990863</a>	CFW500A01P6B2DB66DSG2	\$492.00	0.25	0.18	3Ph/ 230VAC	1.6	3Ph/ 230VAC	1Ph or 3Ph/ 230VAC	1.6	5.5/2.5 <sup>5</sup>	40/20	22	A	Y	Y	<a href="#">PDF</a>
<a href="#">14991103</a>	CFW500A02P6B2DB66DSG2	\$506.00	0.5	0.37		2.6			2.6	9.0/4.0 <sup>5</sup>	40/20	22				<a href="#">PDF</a>
<a href="#">14991753</a>	CFW500A04P3B2DB66DSG2	\$539.00	1	0.75		4.3			4.3	14/6.3 <sup>5</sup>	40/20	22				<a href="#">PDF</a>
<a href="#">14938005</a>	CFW500A07P3B2DB66DSG2	\$644.00	2	1.5		7.3			7.3	25/12 <sup>5</sup>	40/20	22				<a href="#">PDF</a>
<a href="#">14938047</a>	CFW500A10P0B2DB66DSG2	\$691.00	3	2.2		10		10.0	25/16 <sup>5</sup>	40/20	22	<a href="#">PDF</a>				
<a href="#">14938113</a>	CFW500A16P0T2DB66DSG2	\$856.00	5	3.7		16		16.0	25 <sup>5</sup>	40	22	<a href="#">PDF</a>				
<a href="#">14975838</a>	CFW500B24P0T2DB66DSG2	\$1,234.00	7.5	5.5		24		24.0	32 <sup>5</sup>	60	26.5	B				<a href="#">PDF</a>
<a href="#">14938655</a>	CFW500B28P0T2DB66DSG2	\$1,441.00	10	7.5		28		28.0	40	60	26.5					<a href="#">PDF</a>
<a href="#">14991953</a>	CFW500A01P0T4DB66DSG2	\$602.00	0.33	0.25	3Ph/ 480VAC	1	3Ph/ 480VAC	3Ph/ 480VAC	1.0	1.6 <sup>5</sup>	20	22	A	Y	Y	<a href="#">PDF</a>
<a href="#">14992148</a>	CFW500A01P6T4DB66DSG2	\$619.00	0.5	0.37		1.6			1.6	2.5 <sup>5</sup>	20	22				<a href="#">PDF</a>
<a href="#">14976517</a>	CFW500A02P6T4DB66DSG2	\$627.00	1	0.75		2.6			2.6	4 <sup>5</sup>	20	22				<a href="#">PDF</a>
<a href="#">14976809</a>	CFW500A04P3T4DB66DSG2	\$743.00	2	1.4		4.3			4.3	6.3 <sup>5</sup>	20	22				<a href="#">PDF</a>
<a href="#">14977065</a>	CFW500A06P5T4DB66DSG2	\$885.00	3	2.2		6.5			6.5	10 <sup>5</sup>	20	22				<a href="#">PDF</a>
<a href="#">14977266</a>	CFW500A10P0T4DB66DSG2	\$1,045.00	5	3.7		10			10.0	16 <sup>5</sup>	25	22				<a href="#">PDF</a>
<a href="#">14977397</a>	CFW500B14P0T4DB66DSG2	\$1,298.00	7.5	5.5		14		14.0	20 <sup>5</sup>	35	26.5	B				<a href="#">PDF</a>
<a href="#">14977556</a>	CFW500B16P0T4DB66DSG2	\$1,415.00	10	7.5		16		19.5	25	35						<a href="#">PDF</a>
<a href="#">14978365</a>	CFW500B24P0T4DB66DSG2	\$1,914.00	15	11		24		24.0	40	60	26.5					<a href="#">PDF</a>
<a href="#">14978573</a>	CFW500B31P0T4DB66DSG2	\$2,310.00	20	15		31		31.0	50	60	26.5					<a href="#">PDF</a>
No Disconnect																
<a href="#">14989840</a>	CFW500A01P6B2DB66G2	\$427.00	0.25	0.18	3Ph/ 230VAC	1.6	3Ph/ 230VAC	1Ph or 3Ph/ 230VAC	1.6	5.5/2.5 <sup>5</sup>	40/20	22	A	Y	N	<a href="#">PDF</a>
<a href="#">14990985</a>	CFW500A02P6B2DB66G2	\$440.00	0.5	0.37		2.6			2.6	9.0/4.0 <sup>5</sup>	40/20	22				<a href="#">PDF</a>
<a href="#">14991517</a>	CFW500A04P3B2DB66G2	\$468.00	1	0.75		4.3			4.3	14/6.3 <sup>5</sup>	40/20	22				<a href="#">PDF</a>
<a href="#">14937890</a>	CFW500A07P3B2DB66G2	\$558.00	2	1.5		7.3			7.3	25/12 <sup>5</sup>	40/20	22				<a href="#">PDF</a>
<a href="#">14938041</a>	CFW500A10P0B2DB66G2	\$602.00	3	2.2		10		10.0	25/16 <sup>5</sup>	40/20	22	<a href="#">PDF</a>				
<a href="#">14938111</a>	CFW500A16P0T2DB66G2	\$743.00	5	3.7		16		16.0	25 <sup>5</sup>	40	22	<a href="#">PDF</a>				
<a href="#">14975783</a>	CFW500B24P0T2DB66G2	\$1,073.00	7.5	5.5		24		24.0	32 <sup>5</sup>	60	26.5	B				<a href="#">PDF</a>
<a href="#">14938547</a>	CFW500B28P0T2DB66G2	\$1,252.00	10	7.5		28		28.0	40	60	26.5					<a href="#">PDF</a>
<a href="#">14991899</a>	CFW500A01P0T4DB66G2	\$523.00	0.33	0.25	3Ph/ 480VAC	1	3Ph/ 480VAC	3Ph/ 480VAC	1.0	1.6 <sup>5</sup>	20	22	A	Y	N	<a href="#">PDF</a>
<a href="#">14992113</a>	CFW500A01P6T4DB66G2	\$537.00	0.5	0.37		1.6			1.6	2.5 <sup>5</sup>	20	22				<a href="#">PDF</a>
<a href="#">14975888</a>	CFW500A02P6T4DB66G2	\$545.00	1	0.75		2.6			2.6	4 <sup>5</sup>	20	22				<a href="#">PDF</a>
<a href="#">14976683</a>	CFW500A04P3T4DB66G2	\$647.00	2	1.5		4.3			4.3	6.3 <sup>5</sup>	20	22				<a href="#">PDF</a>
<a href="#">14976814</a>	CFW500A06P5T4DB66G2	\$770.00	3	2.2		6.5			6.5	10 <sup>5</sup>	20	22				<a href="#">PDF</a>
<a href="#">14977261</a>	CFW500A10P0T4DB66G2	\$908.00	5	3.7		10			10.0	16 <sup>5</sup>	25	22				<a href="#">PDF</a>
<a href="#">14977391</a>	CFW500B14P0T4DB66G2	\$1,128.00	7.5	5.5		14		14.0	20 <sup>5</sup>	35	26.5	B				<a href="#">PDF</a>
<a href="#">14977552</a>	CFW500B16P0T4DB66G2	\$1,229.00	10	7.5		16		19.5	25	35						<a href="#">PDF</a>
<a href="#">14977629</a>	CFW500B24P0T4DB66G2	\$1,664.00	15	11		24		24.0	40	60	26.5					<a href="#">PDF</a>
<a href="#">14978548</a>	CFW500B31P0T4DB66G2	\$2,008.00	20	15		31		31.0	50	60	26.5					<a href="#">PDF</a>

1) For use with three-phase motors only.

2) The power values for the maximum applicable motor shown are reference values and are valid for WEG three-phase, four-pole induction motors with power supply of 230VAC. The proper sizing of the CFW300 drive must be determined as a function of the rated current of the motor being used.

3) Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.

4) For UL508C compliance, use UL fuse type J.

5) UL Type E Starter consisting of WEG MPW40 (Manual Motor Protector) + CLT (current Limiter) + LST (line side Terminal block) + TSB (Trip indicating unit)



# CFW500 AC Drives – Specifications

## WEG CFW500 Drive Model Selection Tables, continued

CFW500 General Specifications (Applicable to All Models)		
<b>Control</b>	<b>Method</b>	V/f (Scalar), VVW (Voltage Vector Control), Vector control with encoder, SVC (Sensorless Vector Control) without encoder, PWM SVM (Space Vector Modulation)
	<b>Output Frequency Range</b>	0–500 Hz; 0.015 Hz resolution
<b>Performance</b>	<b>Speed Control</b>	<b>V/f (Scalar)</b> <ul style="list-style-type: none"> <li>Regulation (with slip compensation): 1% of the rated speed</li> <li>Speed variation range: 1:20</li> </ul>
		<b>VVW</b> <ul style="list-style-type: none"> <li>Regulation: 1% of the rated speed</li> <li>Speed variation range: 1:30</li> </ul>
		<b>VVW PM</b> <ul style="list-style-type: none"> <li>Regulation: 0.1% of the rated speed</li> <li>Speed variation range: 1:20</li> </ul>
		<b>Sensorless</b> <ul style="list-style-type: none"> <li>Regulation: 0.5% of the rated speed</li> <li>Speed variation range: 1:100</li> </ul>
		<b>Vector w/ Encoder</b> <ul style="list-style-type: none"> <li>Regulation 0.1% of the rated speed with a digital reference (keypad, serial, fieldbus, electronic potentiometer, multispeed)</li> </ul>
	<b>Torque Control</b>	<ul style="list-style-type: none"> <li>Range: 10 to 180%, regulation: <math>\pm 5\%</math> of the rated torque (with encoder)</li> <li>Range: 20 to 180%, regulation <math>\pm 10\%</math> of the rated torque (sensorless above 3 Hz)</li> </ul>
<b>Inputs</b>	<b>Analog</b>	<ul style="list-style-type: none"> <li>1 insulated input, levels: (0 to 10) V or (0 to 20) mA or (4 to 20) mA</li> <li>Linearity error <math>\leq 0.25\%</math></li> <li>Impedance: 100k<math>\Omega</math> for voltage input, 500<math>\Omega</math> for current input</li> <li>Programmable functions</li> <li>Maximum voltage permitted in the input: 30VDC</li> </ul>
	<b>Digital</b>	<ul style="list-style-type: none"> <li>4 insulated inputs</li> <li>Programmable functions: active high (PNP) with maximum low of 15VDC and minimum high of 20VDC, or active low (NPN) with maximum low of 5VDC and minimum high of 9VDC</li> <li>Maximum input voltage: 30VDC</li> <li>Input current: 4.5 mA</li> <li>Maximum input current: 5.5 mA</li> </ul>
<b>Outputs</b>	<b>Analog</b>	<ul style="list-style-type: none"> <li>1 insulated output, levels: (0 to 10) V or (0 to 20) mA or (4 to 20) mA</li> <li>Linearity error <math>\leq 0.25\%</math></li> <li>Programmable functions</li> <li><math>R_L \geq 10k\Omega</math> (0 to 10) V or <math>R_L \leq 500\Omega</math> (0 to 20 mA / 4 to 20 mA)</li> </ul>
	<b>Relay</b>	<ul style="list-style-type: none"> <li>1 relay with NA/NF contact</li> <li>Maximum voltage: 240VAC</li> <li>Maximum current: 0.5 A</li> <li>Programmable functions</li> </ul>
	<b>Transistor</b>	<ul style="list-style-type: none"> <li>1 insulated digital output open sink (uses as reference the 24VDC power supply)</li> <li>Maximum current 150 mA** (maximum capacity for the 24VDC power supply)</li> <li>Programmable functions</li> </ul> <p><b>Note: When the digital output load is fed by an external power supply, the output status remains indefinite until the internal 24V power supply is stable.</b></p>
	<b>Power Supply</b>	<ul style="list-style-type: none"> <li>24VDC <math>\pm 20\%</math> power supply. Maximum capacity: 150mA</li> <li>10VDC power supply. Maximum capacity: 2mA</li> </ul>
<b>Communication</b>	<b>Interface RS485</b>	<ul style="list-style-type: none"> <li>Insulated RS485</li> <li>Modbus-RTU/BACnet protocol with maximum communication of 38.4 kbps</li> </ul>
<b>Safety</b>	<b>Protection</b>	<ul style="list-style-type: none"> <li>Overcurrent/phase-phase short circuit in the output</li> <li>Overcurrent/phase-ground short circuit in the output</li> <li>Under/overvoltage</li> <li>Overtemperature in the heatsink</li> <li>Overload in the motor</li> <li>Overload in the power module (IGBTs)</li> <li>External alarm/fault</li> <li>Setting error</li> </ul>
<b>Keypad</b>	<b>Integral (HMI)</b>	<ul style="list-style-type: none"> <li>9 keys: Start/Stop, Up arrow, Down arrow, Direction of Rotation, Jog, Local/Remote, BACK/ESC, and ENTER/MENU</li> <li>LCD display</li> <li>View/editing of all parameters</li> <li>Indication accuracy: <ul style="list-style-type: none"> <li>-Current: 5% of the rated current</li> <li>-Speed resolution: 0.1 Hz</li> </ul> </li> </ul>
<b>Enclosure</b>	<b>IP20</b>	Available models in frame size A, B, C, D, E, F, and G
	<b>NEMA1/IP20</b>	Available models in frame size A, B, C, D, E, F, and G with NEMA1 kit
	<b>NEMA 12</b>	
	<b>NEMA 4X Indoor/Outdoor</b>	Enclosed models available in frame size A and B
	<b>IP66 Indoor/Outdoor</b>	



# CFW500 AC Drives – Specifications

## WEG CFW500 Drive Model Selection Tables, continued

CFW500 General Specifications, <i>continued</i> (Applicable to All Models)	
<b>Input Voltage Range</b>	1-phase & 3-phase 230V models: 200–240 VAC (-15%, +10%) 3-phase 460V models: 380–480 VAC (-15%, +10%)
<b>Input Frequency Range</b>	50/60Hz (48 to 62 Hz)
<b>Allowable Input Phase Imbalance</b>	≤3% of rated phase-to-phase input voltage
<b>Overvoltage</b>	Category III (IEC/EN 61010/UL 508C)
<b>Ambient Operating Temperature</b>	<ul style="list-style-type: none"> <li>CFW500-IP20, Frame A to E (with minimum clearance on each side): 14°F (-10°C) to 122°F (50°C) w/o derating. Up to 140°F (60°C) with derating.</li> <li>CFW500-IP20, Frame F: 14°F (-10°C) to 104 °F (40°C) w/o derating. Up to 140°F (60°C) with derating.</li> <li>CFW500-IP20, Frame G: 14°F (-10°C) to 113 °F (45°C) w/o derating. Up to 140°F (60°C) with derating.</li> <li>CFW500-IP66 Drives: 14°F (-10°C) to 104 °F (40°C) w/o derating. Up to 122°F (50°C) with derating.</li> </ul>
<b>Altitude</b>	0 to 3300ft [1000m]; up to 13,200 ft [4000m] with current derating (1% per 100m above 1000m)
<b>Humidity</b>	5 to 95% non-condensing
<b>Mounting</b>	DIN rail or surface mounting with screws
<b>Mounting Orientation</b>	Vertical and upright; can be mounted side-to-side (zero stack)
<b>Environmental Protection Rating</b>	IP20 or IP66
<b>Agency Approvals</b>	cULUS, TUV, CE

### DRIVE SETUP AND PROGRAMMING NOTE:



If drive parameter setup and programming is necessary when rated input voltage is not available the following method can be used to power up the drive LED and control board. The 460VAC & 230VAC, CFW500, Frame-A to E can be powered up using single phase 120VAC, strictly for programming purposes. Wire the AC Line and Neutral to the L1 and L2 terminals. This will power up the drive LED display and allow communication to WPS software.



**WARNING: IF USING 120VAC INPUT FOR DRIVE SETUP AND PROGRAMMING, BE SURE TO REMOVE 120VAC POWER BEFORE RATED INPUT VOLTAGE IS APPLIED.**





# CFW500 AC Drives – Specifications

## Minimum Clearances and Air Flow for WEG CFW500 IP20 Series Drives



IP20 minimum free spaces for ventilation

### CFW500 IP20 Minimum Mounting Clearances\*

Frame Size	A mm [in]	B mm [in]	C mm [in]	D mm [in]
A	15 [0.59]	40 [1.57]	30 [1.18]	10 [0.39]
B	35 [1.38]	50 [1.97]	40 [1.57]	15 [0.59]
C	40 [1.57]	50 [1.97]	50 [1.97]	30 [1.18]
D	40 [1.57]	50 [1.97]	50 [1.97]	40 [1.57]
E	110 [4.33]	130 [5.11]	50 [1.97]	40 [1.57]
F	110 [4.33]	130 [5.11]	10 [0.39]	30 [1.18]
G	150 [5.91]	250 [9.844]	20 [0.78]	80 [3.15]

\* Failure to follow the minimum mounting clearances may cause the fan to malfunction and cause a heat dissipation problem.

### CFW500 IP20 Loss Ratings and Temperatures

WEG MAT #	Model #	Duty	Output Rated Current [A <sub>rms</sub> ]	Overload Currents		Rated Carrier Frequency [kHz]	Nominal Drive Surrounding Temperature		Input Rated Current [A <sub>rms</sub> ]	Drive Power Losses	
				1 min [A <sub>rms</sub> ]	3s [A <sub>rms</sub> ]		IP20 with Min. Free Space [°C/°F]	Side-by-side IP20 or Type 1 [°C/°F]		Surface Mounting [W]	Flange Mounting [W]
<a href="#">15570800</a>	CFW500A01P6B2NB20G2	-	1.6	2.4	3.2	5	50 / 122	40 / 104	4.0 / 2.0*	18	-
<a href="#">15571879</a>	CFW500A02P6B2NB20G2		2.6	3.9	5.2	5	50 / 122	40 / 104	6.5 / 3.1*	30	
<a href="#">15571881</a>	CFW500A04P3B2NB20G2		4.3	6.5	8.6	5	50 / 122	40 / 104	10.5 / 5.2*	49	
<a href="#">15574655</a>	CFW500B07P3B2DB20G2		7.3	11	14.6	5	50 / 122	40 / 104	17 / 8.6*	84	
<a href="#">15575067</a>	CFW500B10P0B2DB20G2		10	15	20	5	50 / 122	40 / 104	25 / 12*	115	
<a href="#">15572625</a>	CFW500A07P0T2NB20G2		7.0	10.5	14	5	50 / 122	40 / 104	8.5	80	
<a href="#">15572689</a>	CFW500A09P6T2NB20G2		9.6	14.5	19.2	4	45 / 113	40 / 104	11.7	115	
<a href="#">15575202</a>	CFW500B16P0T2DB20G2		16	24	32	5	50 / 122	40 / 104	19.5	185	
<a href="#">15575701</a>	CFW500C24P0T2DB20G2		24	36	48	4	40 / 104	40 / 104	29	275	
<a href="#">15575716</a>	CFW500D28P0T2DB20G2		28	42	56	5	50 / 122	40 / 104	34.2	320	
<a href="#">15576540</a>	CFW500D47P0T2DB20G2		47	70.5	94	5	50 / 122	40 / 104	57.3	500	
<a href="#">15572819</a>	CFW500A01P0T4NB20G2		1.0	1.5	2.0	5	50 / 122	40 / 104	1.2	20	
<a href="#">15572908</a>	CFW500A01P6T4NB20G2		1.6	2.4	3.2	5	50 / 122	40 / 104	1.9	25	
<a href="#">15573714</a>	CFW500A02P6T4NB20G2		2.6	3.9	5.2	5	50 / 122	40 / 104	3.2	45	
<a href="#">15573819</a>	CFW500A04P3T4NB20G2		4.3	6.5	8.6	5	50 / 122	40 / 104	5.2	65	
<a href="#">15573823</a>	CFW500A06P1T4NB20G2		6.1	9.2	12.2	5	50 / 122	40 / 104	7.4	105	
<a href="#">15575568</a>	CFW500B02P6T4DB20G2		2.6	3.9	5.2	5	50 / 122	40 / 104	3.2	45	
<a href="#">15575577</a>	CFW500B04P3T4DB20G2		4.3	6.5	8.6	5	50 / 122	40 / 104	5.2	65	
<a href="#">15575665</a>	CFW500B06P5T4DB20G2		6.5	9.8	13	5	50 / 122	40 / 104	7.8	105	
<a href="#">15575699</a>	CFW500B10P0T4DB20G2		10	15	20	5	50 / 122	40 / 104	12	170	
<a href="#">15575707</a>	CFW500C14P0T4DB20G2		14	21	28	5	50 / 122	40 / 104	17.1	220	
<a href="#">15575711</a>	CFW500C16P0T4DB20G2		16	24	32	5	50 / 122	40 / 104	19.5	270	
<a href="#">15576919</a>	CFW500D24P0T4DB20G2		24	36	48	5	50 / 122	40 / 104	29.3	405	
<a href="#">15577021</a>	CFW500D31P0T4DB20G2		31	46.5	62	5	50 / 122	40 / 104	37.8	500	

Continued on next page

\* A<sub>rms</sub> values noted with an asterisk are for 3-phase installations of 1-phase/3-phase capable drives.



# CFW500 AC Drives – Specifications

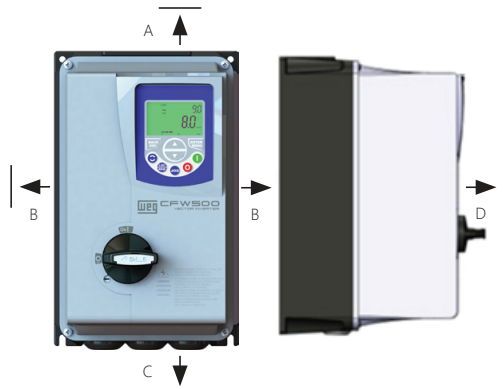
## Minimum Clearances and Air Flow for WEG CFW500 IP20 Series Drives

CFW500 IP20 Loss Ratings and Temperatures											
WEG MAT #	Model #	Duty	Output Rated Current [A <sub>rms</sub> ]	Overload Currents		Rated Carrier Frequency [kHz]	Nominal Drive Surrounding Temperature		Input Rated Current [A <sub>rms</sub> ]	Drive Power Losses	
				1 min [A <sub>rms</sub> ]	3s [A <sub>rms</sub> ]		IP20 with Min. Free Space [°C/°F]	Side-by-side IP20 or Type 1 [°C/°F]		Surface Mounting [W]	Flange Mounting [W]
Continued from previous page											
<a href="#"><u>15577077</u></a>	CFW500E56P0T2DB20G2	ND	70	77	105	5	40 / 104	40 / 104	74.9	795	–
		HD	56	84	112	5	50 / 122	40 / 104	68.32	600	
<a href="#"><u>15342437</u></a>	CFW500F77P0T2DB20G2	ND	77	84.7	115.5	4	40 / 104	40 / 104	73.92	900	150
		HD	64	96	128	4	40 / 104	40 / 104	61.44	730	110
<a href="#"><u>15342760</u></a>	CFW500F88P0T2DB20G2	ND	88	96.8	132	4	40 / 104	40 / 104	84.48	1000	160
		HD	75	112.5	150	4	40 / 104	40 / 104	72	860	120
<a href="#"><u>15342909</u></a>	CFW500F0105T2DB20G2	ND	105	115.5	157.5	2.5	40 / 104	40 / 104	100.8	1200	180
		HD	88	132	176	2.5	40 / 104	40 / 104	84.48	1000	140
<a href="#"><u>15577211</u></a>	CFW500E39P0T4DB20G2	ND	45	49.5	67.5	5	40 / 104	40 / 104	48.2	810	–
		HD	39	58.5	78	5	50 / 122	40 / 104	47.58	650	
<a href="#"><u>15577452</u></a>	CFW500E49P0T4DB20G2	ND	58.5	64.4	87.8	5	40 / 104	40 / 104	62.6	985	–
		HD	49	73.5	98	5	50 / 122	40 / 104	59.78	750	
<a href="#"><u>15733937</u></a>	CFW500F77P0T4DB20G2	ND	77	84.7	115.5	4	40 / 104	40 / 104	81.62	1050	170
		HD	61	91.5	122	4	40 / 104	40 / 104	64.66	830	130
<a href="#"><u>15734064</u></a>	CFW500F88P0T4DB20G2	ND	88	96.8	132	4	40 / 104	40 / 104	93.28	1200	180
		HD	73	109.5	146	4	40 / 104	40 / 104	77.38	1000	140
<a href="#"><u>15734119</u></a>	CFW500F0105T4DB20G2	ND	105	115.5	157.5	2.5	40 / 104	40 / 104	111.30	1430	200
		HD	88	132	176	2.5	40 / 104	40 / 104	93.28	1200	160
<a href="#"><u>15448371</u></a>	CFW500G0142T4DB20G2	ND	142	156.2	213	2.5	45 / 113	45 / 113	136.32	1680	210
		HD	115	172.5	230	2.5	45 / 113	45 / 113	110.4	1290	200
<a href="#"><u>15448372</u></a>	CFW500G0180T4DB20G2	ND	180	198	270	2.5	45 / 113	45 / 113	172.8	2050	360
		HD	142	213	284	2.5	45 / 113	45 / 113	136.32	1570	350
<a href="#"><u>15448373</u></a>	CFW500G0211T4DB20G2	ND	211	232.1	316.5	2.5	45 / 113	45 / 113	202.56	2330	360
		HD	180	270	360	2.5	45 / 113	45 / 113	172.8	1940	350

\* A<sub>rms</sub> values noted with an asterisk are for 3-phase installations of 1-phase/3-phase capable drives.

# WEG CFW500 AC Drives – Specifications

## Minimum Clearances and Air Flow for WEG CFW500 IP66 Series Drives



IP66 minimum free spaces for ventilation

### CFW500 IP66 Minimum Mounting Clearances\*

Frame Size	A mm [in]	B mm [in]	C mm [in]	D mm [in]
A	36 [1.38]	15 [0.59]	50 [1.97]	50 [1.97]
B	50 [1.97]	40 [1.57]	60 [2.36]	50 [1.97]

\* Failure to follow the minimum mounting clearances may cause the fan to malfunction and cause a heat dissipation problem.

### CFW500 IP66 Loss Ratings and Temperatures

WEG MAT #	Model # (CFW500+...)	Output Rated Current [A <sub>rms</sub> ]	Overload Currents		Rated Carrier Frequency [kHz]	Nominal Drive Surrounding Temperature [°C/°F]	Input Rated Current [A <sub>rms</sub> ]	Drive Power Losses
			1 min [A <sub>rms</sub> ]	3s [A <sub>rms</sub> ]				Surface Mounting [W]
<a href="#">14989840</a>	CFW500A01P6B2DB66G2	1.6	2.4	3.2	5	40 / 104	3.5 / 2.0*	18
<a href="#">14990863</a>	CFW500A01P6B2DB66DSG2	1.6	2.4	3.2	5	40 / 104	3.5 / 2.0*	18
<a href="#">14990985</a>	CFW500A02P6B2DB66G2	2.6	3.9	5.2	5	40 / 104	5.7 / 3.1*	30
<a href="#">14991103</a>	CFW500A02P6B2DB66DSG2	2.6	3.9	5.2	5	40 / 104	5.7 / 3.1*	30
<a href="#">14991517</a>	CFW500A04P3B2DB66G2	4.3	6.5	8.6	5	40 / 104	10.5 / 5.2*	49
<a href="#">14991753</a>	CFW500A04P3B2DB66DSG2	4.3	6.5	8.6	5	40 / 104	10.5 / 5.2*	49
<a href="#">14937890</a>	CFW500A07P3B2DB66G2	7.3	11	14.6	5	40 / 104	16 / 8.6*	84
<a href="#">14938005</a>	CFW500A07P3B2DB66DSG2	7.3	11	14.6	5	40 / 104	16 / 8.6*	84
<a href="#">14938041</a>	CFW500A10P0B2DB66G2	10	15	20	5	40 / 104	22.1 / 12*	115
<a href="#">14938047</a>	CFW500A10P0B2DB66DSG2	10	15	20	5	40 / 104	22.1 / 12*	115
<a href="#">14938111</a>	CFW500A16P0T2DB66G2	16	24	32	5	40 / 104	19.5	185
<a href="#">14938113</a>	CFW500A16P0T2DB66DSG2	16	24	32	5	40 / 104	19.5	185
<a href="#">14975783</a>	CFW500B24P0T2DB66G2	24	36	48	4	40 / 104	29	275
<a href="#">14975838</a>	CFW500B24P0T2DB66DSG2	24	36	48	4	40 / 104	29	275
<a href="#">14938547</a>	CFW500B28P0T2DB66G2	28	42	56	5	40 / 104	34.0	320
<a href="#">14938655</a>	CFW500B28P0T2DB66DSG2	28	42	56	5	40 / 104	34.0	320
<a href="#">14991899</a>	CFW500A01P0T4DB66G2	1	1.5	2	5	40 / 104	1.2	20
<a href="#">14991953</a>	CFW500A01P0T4DB66DSG2	1	1.5	2	5	40 / 104	1.2	20
<a href="#">14992113</a>	CFW500A01P6T4DB66G2	1.6	2.4	3.2	5	40 / 104	1.9	25
<a href="#">14992148</a>	CFW500A01P6T4DB66DSG2	1.6	2.4	3.2	5	40 / 104	1.9	25
<a href="#">14975888</a>	CFW500A02P6T4DB66G2	2.6	3.9	5.2	5	40 / 104	3.2	45
<a href="#">14976517</a>	CFW500A02P6T4DB66DSG2	2.6	3.9	5.2	5	40 / 104	3.2	45
<a href="#">14976683</a>	CFW500A04P3T4DB66G2	4.3	6.5	8.6	5	40 / 104	5.2	65
<a href="#">14976809</a>	CFW500A04P3T4DB66DSG2	4.3	6.5	8.6	5	40 / 104	5.2	65
<a href="#">14976814</a>	CFW500A06P5T4DB66G2	6.5	9.8	13	5	40 / 104	7.8	105
<a href="#">14977065</a>	CFW500A06P5T4DB66DSG2	6.5	9.8	13	5	40 / 104	7.8	105
<a href="#">14977261</a>	CFW500A10P0T4DB66G2	10	15	20	5	40 / 104	12	170
<a href="#">14977266</a>	CFW500A10P0T4DB66DSG2	10	15	20	5	40 / 104	12	170
<a href="#">14977391</a>	CFW500B14P0T4DB66G2	14	21	28	5	40 / 104	17.1	220
<a href="#">14977397</a>	CFW500B14P0T4DB66DSG2	14	21	28	5	40 / 104	17.1	220
<a href="#">14977552</a>	CFW500B16P0T4DB66G2	16	24	32	5	40 / 104	19.5	270
<a href="#">14977556</a>	CFW500B16P0T4DB66DSG2	16	24	32	5	40 / 104	19.5	270
<a href="#">14977629</a>	CFW500B24P0T4DB66G2	24	36	48	5	40 / 104	29.3	405
<a href="#">14978365</a>	CFW500B24P0T4DB66DSG2	24	36	48	5	40 / 104	29.3	405
<a href="#">14978548</a>	CFW500B31P0T4DB66G2	31	46.5	62	5	40 / 104	34.0	500
<a href="#">14978573</a>	CFW500B31P0T4DB66DSG2	31	46.5	62	5	40 / 104	34.0	500

\* A<sub>rms</sub> values noted with an asterisk are for 3-phase installations of 1-phase/3-phase capable drives.

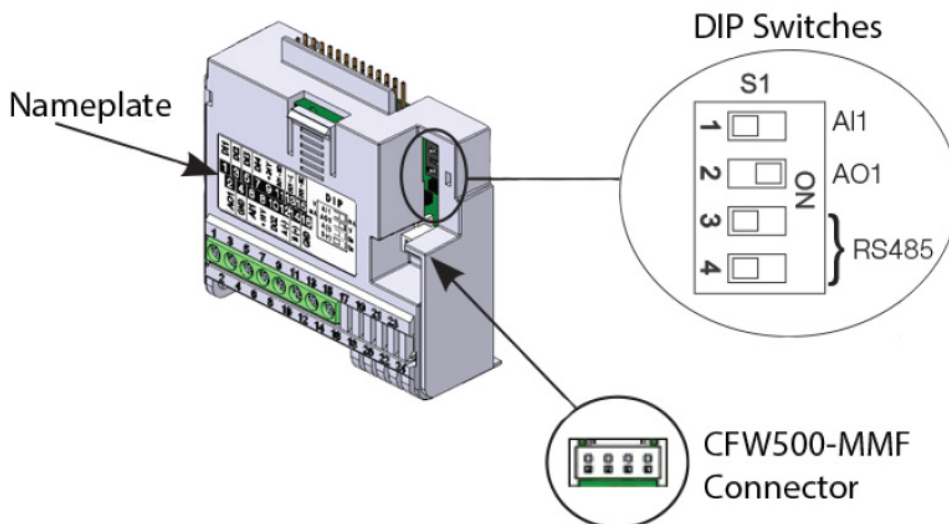


# CFW500 Drives – Control Connections

## Installation and Connection (Default CFW500-IOS Module)

The location of the plug-in module and DIP switches to select the type of analog input and output signal and the termination of the RS485 network is shown below.

The CFW500 drives are supplied with the digital inputs configured as active low (NPN), analog input and output configured for signal in voltage 0–10 V and with termination resistor of the RS485 set to OFF.



Note: To use the analog inputs and/or outputs with signal in current, you must set the switch S1 and the related parameters per the table below. For further information, please refer to the WEG CFW500 programming manual.



Note: To modify the digital inputs from active low to active high, check the use of parameter P0271 in the WEG CFW500 programming manual.

CFW500 Switch Configuration				
Input/Output	Signal	Setting of Switch S1	Signal Range	Parameter Setting
AI1	Voltage	S1.1 = OFF	0–10 V	P233 = 0 (direct reference) or 2 (inverse reference)
	Current	S1.1 = ON	0–20 mA	P233 = 0 (direct reference) or 2 (inverse reference)
			4–20 mA	P233 = 1 (direct reference) or 3 (inverse reference)
AO1	Voltage	S1.2 = ON	0–10 V	P253 = 0 (direct reference) or 3 (inverse reference)
	Current	S1.2 = OFF	0–20 mA	P253 = 1 (direct reference) or 4 (inverse reference)
			4–20 mA	P253 = 2 (direct reference) or 5 (inverse reference)

Switch Settings for RS485			
Communication	Switch	Switch Setting	Option
RS485	S1	S1.3 = OFF and S1.4 = OFF	RS485 terminal OFF
		S1.3 = ON and S1.4 = ON	RS485 terminal ON

### For the correct connection of the control, use:

- Cable gauge: 0.5 mm<sup>2</sup> [20 AWG] to 1.5 mm<sup>2</sup> [14 AWG]
- Maximum torque: 0.5 N·m [4.50 lbf·in]
- Wire the plug-in module connector with shielded cable and separate from the other wiring (power, command in 110V/220VAC, etc.) according to the table below. If those cables must cross other cables, run them perpendicularly, maintaining a minimum spacing of 5cm [1.97 in] at the crossing point.

Cable Separation Distance		
Drive Output Rated Current	Length of the Cable	Minimum Separation Distance
≤ 24A	≤ 100m [330ft]	≥ 10cm [3.94 in]
	> 100m [330ft]	≥ 25cm [9.84 in]
≥ 28A	≤ 30m [100ft]	≥ 10cm [3.94 in]
	> 30m [100 ft]	≥ 25cm [9.84 in]



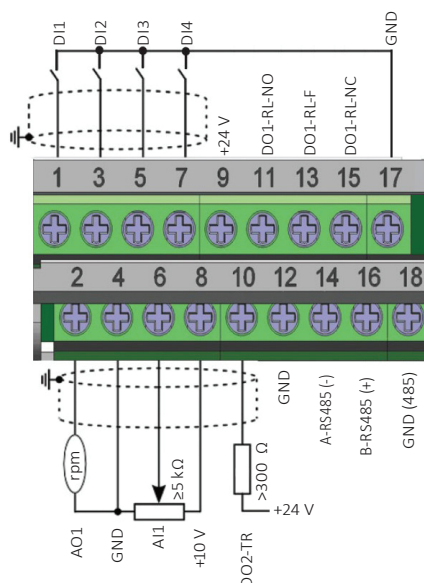
# CFW500 Drives– Control Connections

## Control Connections

The control connections (analog input/output, digital input/output, and RS485 interface) must be configured according to the specification of the plug-in module's connector. Refer to the plug-in module's instructions. The typical functions and connections for the CFW500-IOS standard plug-in module are shown below. For additional details about the specifications of the connector signals, please see Chapter 8, Technical Specifications, of the WEG CFW500 User Manual.



Note: The connections below are specific to the CFW500-IOS module that comes standard with the WEG CFW500 drive.



### CFW500-IOS Connectors

Connector	Description
1	DI1
3	DI2
5	DI3
7	DI4
9	+24V
11	DO1-RL-NO
13	DO1-RL-C
15	DO1-RL-NC
17	GND
2	AO1
4	GND
6	AI1
8	+10V
10	DO2-TR
12	GND
14	RS485-A
16	RS485-B
18	GND (485)

### CFW500-IOS Connection Specifications

Type	Terminal	Description
Inputs	AI1	<ul style="list-style-type: none"> <li>1 insulated input, levels: 0–10 V or 0–20 mA or 4–20 mA</li> <li>Linearity error <math>\leq 0.25\%</math></li> <li>Impedance: 100k<math>\Omega</math> for voltage input, 500<math>\Omega</math> for current input</li> <li>Programmable functions</li> <li>Maximum voltage permitted in the input: 30VDC</li> </ul>
	DI1 – DI4*	<ul style="list-style-type: none"> <li>4 insulated inputs</li> <li>Programmable functions: active high (PNP) with maximum low of 15VDC and minimum high of 20VDC, or active low (NPN) with maximum low of 5VDC and minimum high of 9VDC</li> <li>Maximum input voltage: 30VDC</li> <li>Input current: 4.5 mA</li> <li>Maximum input current: 5.5 mA</li> </ul>
Outputs	AO1	<ul style="list-style-type: none"> <li>1 insulated output, levels: 0–10 V or 0–20 mA or 4–20 mA</li> <li>Linearity error <math>\leq 0.25\%</math></li> <li>Programmable functions</li> <li><math>R_L \geq 10 \text{ k}\Omega</math> (0–10 V) or <math>R_L \leq 500\Omega</math> (0–20 mA / 4–20 mA)</li> </ul>
	DO1-RL-NO DO1-RL-F DO1-RL-NC	<ul style="list-style-type: none"> <li>1 relay with NA/NF contact</li> <li>Maximum voltage: 240VAC</li> <li>Maximum current: 0.5 A</li> <li>Programmable functions</li> </ul>
	DO2-TR	<ul style="list-style-type: none"> <li>1 insulated digital output open sink (uses as reference the 24VDC power supply)</li> <li>Maximum current 150 mA (maximum capacity to the 24VDC power supply)</li> <li>Programmable functions</li> </ul> <p><b>Note:</b> When the digital output load is fed by an external power supply, the output status remains indefinite until the internal 24V power supply is stable.</p>
	“+24V” “+10V”	<ul style="list-style-type: none"> <li>24VDC <math>\pm 20\%</math> power supply. Maximum capacity: 150mA**</li> <li>10VDC power supply. Maximum capacity: 2mA</li> </ul>
Communication	A-RS485(-) B-RS485(+) GND(485)	<ul style="list-style-type: none"> <li>Insulated RS485</li> <li>Modbus-RTU/BACnet protocol with maximum communication of 38.4 kbps</li> </ul>

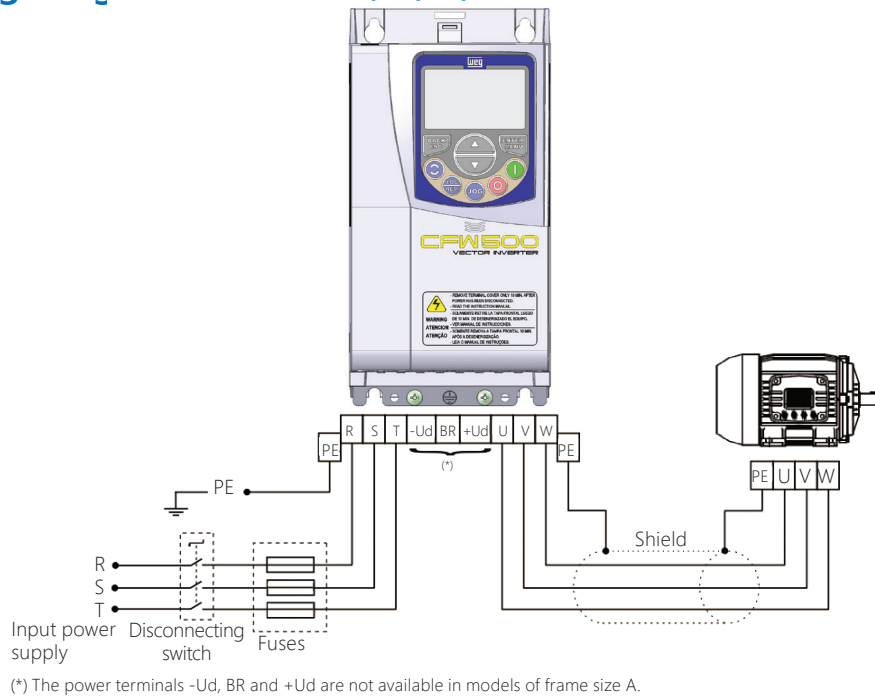
\* When using digital inputs active high (PNP), source voltage from +24V, terminal 9.



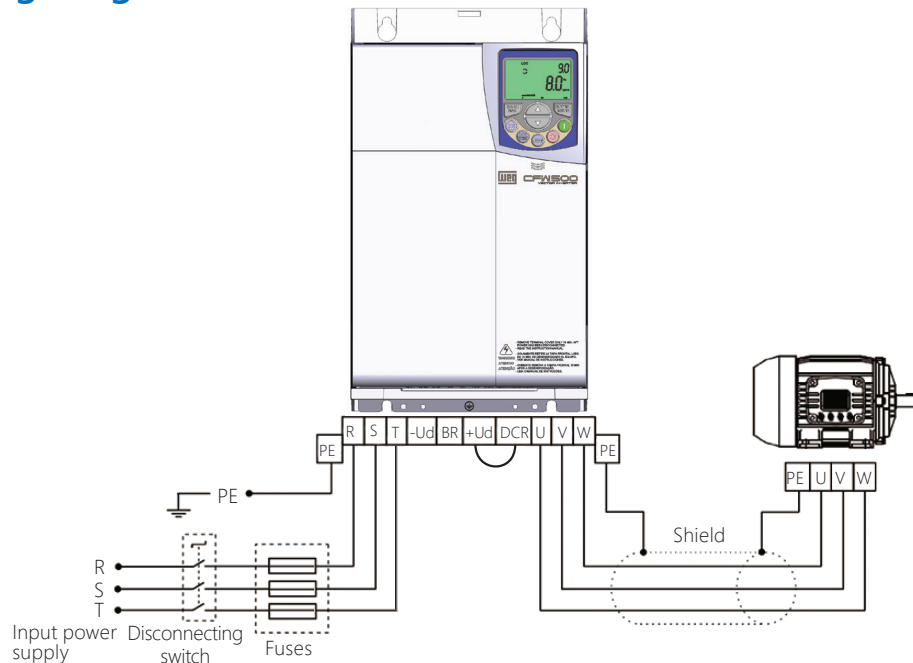


# CFW500 Drives – Basic Wiring Diagrams

## Circuit Wiring Diagram: Frame A, B, C, and F Models



## Circuit Wiring Diagram: Frame D and E Models



**WARNING! PROVIDE A DISCONNECT DEVICE FOR THE DRIVE POWER SUPPLY. THIS DEVICE MUST TURN OFF THE POWER SUPPLY WHENEVER NECESSARY (DURING MAINTENANCE, FOR INSTANCE).**



**WARNING! THE POWER SUPPLY THAT FEEDS THE DRIVE MUST HAVE A GROUNDED NEUTRAL. IN CASE OF IT NETWORKS, REFER TO THE INSTRUCTIONS IN SECTION 3.2.3.3 OF THE WEG CFW500 USER MANUAL.**

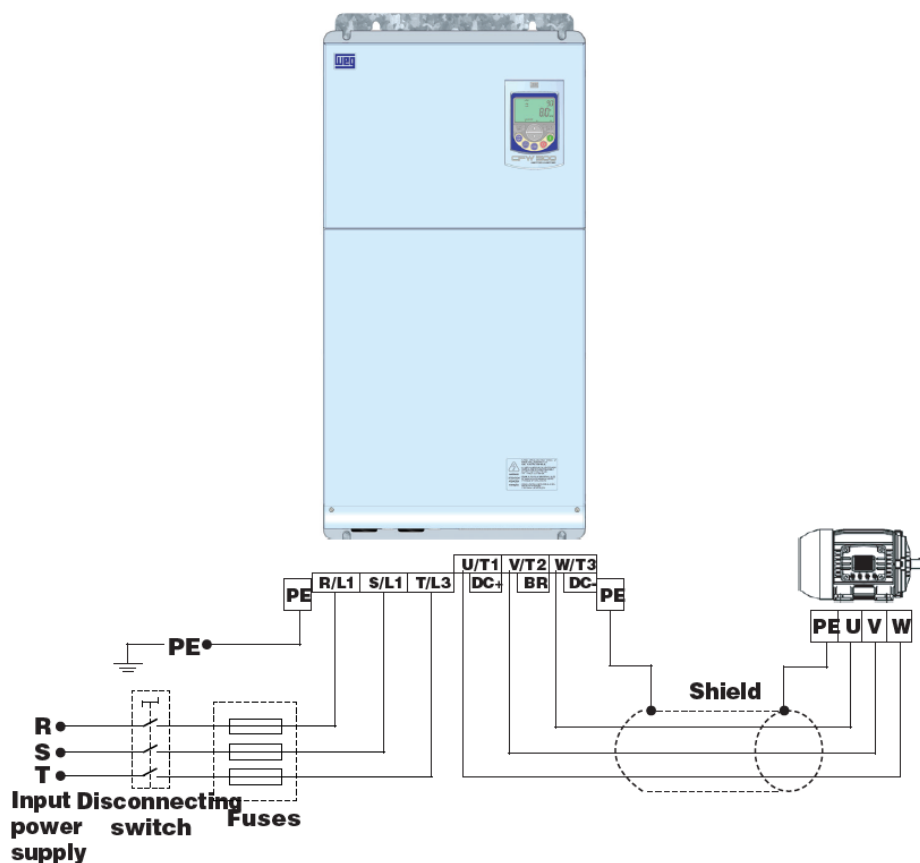


**Note:** The input power supply voltage must be compatible with the drive rated voltage. Power factor correction capacitors are not needed at the drive input (L/L1, N/L2, L3, or R, S, T) and must not be installed at the output (U, V, W).



# CFW500 Drives – Basic Wiring Diagrams

## Circuit Wiring Diagram: Frame G Models



(c) Frame size G



**WARNING!** PROVIDE A DISCONNECT DEVICE FOR THE DRIVE POWER SUPPLY. THIS DEVICE MUST TURN OFF THE POWER SUPPLY WHENEVER NECESSARY (DURING MAINTENANCE, FOR INSTANCE).



**WARNING!** THE POWER SUPPLY THAT FEEDS THE DRIVE MUST HAVE A GROUNDED NEUTRAL. IN CASE OF IT NETWORKS, REFER TO THE INSTRUCTIONS IN SECTION 3.2.3.3 OF THE WEG CFW500 USER MANUAL.



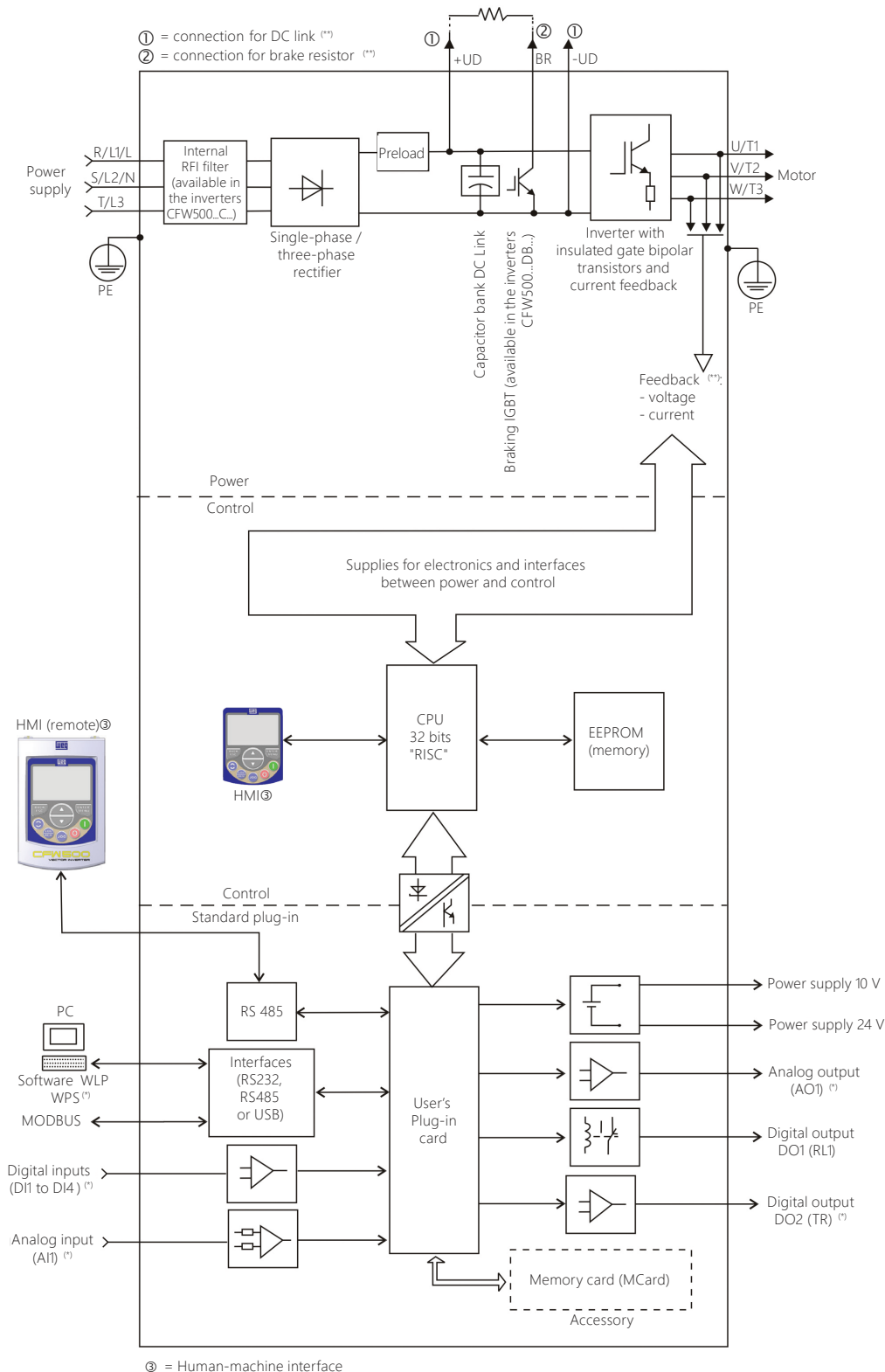
**Note:** The input power supply voltage must be compatible with the drive rated voltage. Power factor correction capacitors are not needed at the drive input (L/L1, N/L2, L3, or R, S, T) and must not be installed at the output (U, V, W).



# CFW500 Drives – Basic Wiring Diagrams

## Control Wiring Diagram: Full I/O

**Note:** Users **MUST** connect wiring according to the circuit diagram shown below. (Refer to WEG CFW500 user manual for additional specific wiring information.)



(\*) 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 guide supplied with the accessory.

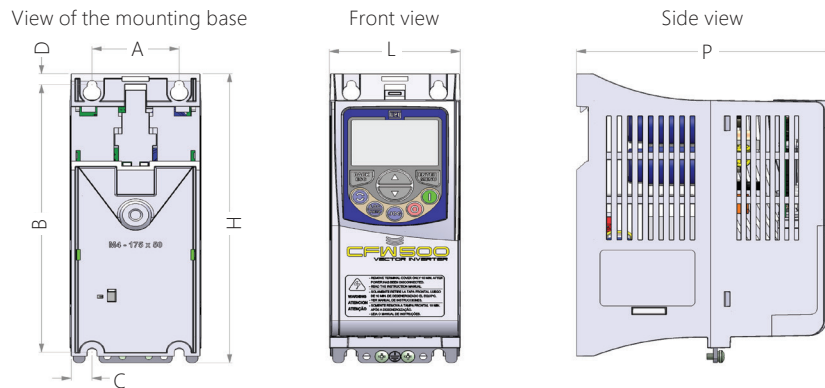
(\*\*) Not available in frame size A.

# WEG CFW500 AC Drives – Drive Mounting

## WEG CFW500 IP20 Drive Positioning and Mounting

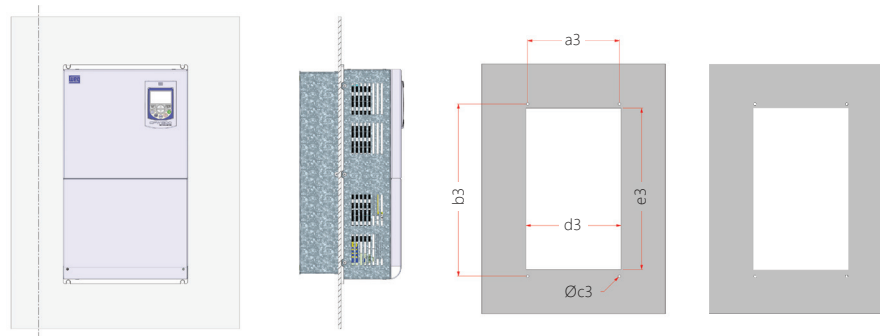
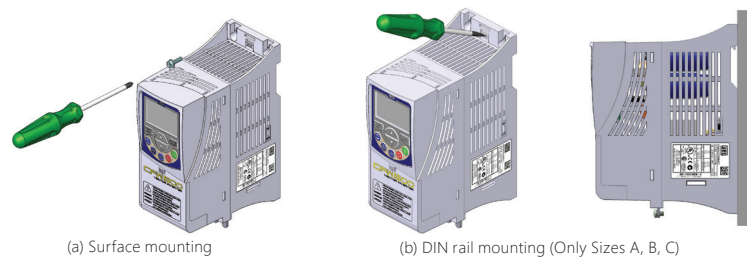
Mount the drive in the upright position on a flat and vertical service. Install and tighten the screws per the maximum torque values in the table below.

Allow the minimum clearances described in the specifications section to allow proper ventilation for cooling. Do not install heat sensitive components directly above the drive.



WEG CFW500 IP20 Series Drive Mounting Requirements										
Frame Size	A	B	C	D	H	L	P	Weight	Mounting Bolt	Recommended Torque
	mm [in]							kg [lb]		N-m [lbf-in]
A	50.0 [1.97]	175.0 [6.89]	11.9 [0.47]	7.2 [0.28]	189.0 [7.44]	75.0 [2.95]	150.0 [5.91]	0.8 [1.76]	M4	2 [17.7]
B	75.0 [2.95]	185.0 [7.30]	11.8 [0.46]	7.3 [0.29]	199.0 [7.83]	100.0 [3.94]	160.0 [6.30]	1.2 [2.65]	M4	2 [17.7]
C	100.0 [3.94]	195.0 [7.70]	16.7 [0.66]	5.8 [0.23]	210.0 [8.27]	135.0 [5.31]	165.0 [6.50]	2 [4.4]	M5	3 [26.5]
D	125.0 [4.92]	290.0 [11.41]	27.5 [1.08]	10.2 [0.40]	306.6 [12.07]	180.0 [7.08]	166.5 [6.55]	4.3 [9.48]	M6	4.5 [39.82]
E	150.0 [5.90]	330.0 [12.99]	34.0 [1.34]	10.6 [0.42]	350.0 [13.78]	220.0 [8.66]	191.5 [7.54]	10 [22.05]	M6	4.5 [39.82]
F	200.0 [7.87]	525.0 [20.67]	42.5 [1.67]	15.0 [0.59]	550.0 [21.65]	300.0 [11.81]	254.0 [10]	26 [57.3]	M8	19 [168.16]
G	200.0 [7.87]	650 [25.59]	57 [2.24]	15 [0.59]	675 [26.57]	335.3 [13.2]	314 [12.36]	52 [114.64]	M8	20 [177.0]

Figure 2: Drive dimensions for mechanical installation



(c) Flange mounting - standard drive (only for Frame size F/G. See User Manual Appendix B Figure B.3 for dimensions)



# CFW500 AC Drives – Drive Mounting

## WEG CFW500 IP66 Drive Positioning and Mounting

Mount the drive in the upright position on a flat and vertical surface. Install and tighten the screws per the maximum torque values in the table below.

Allow the minimum clearances described in the specifications section to allow proper ventilation for cooling. Do not install heat sensitive components directly above the drive.

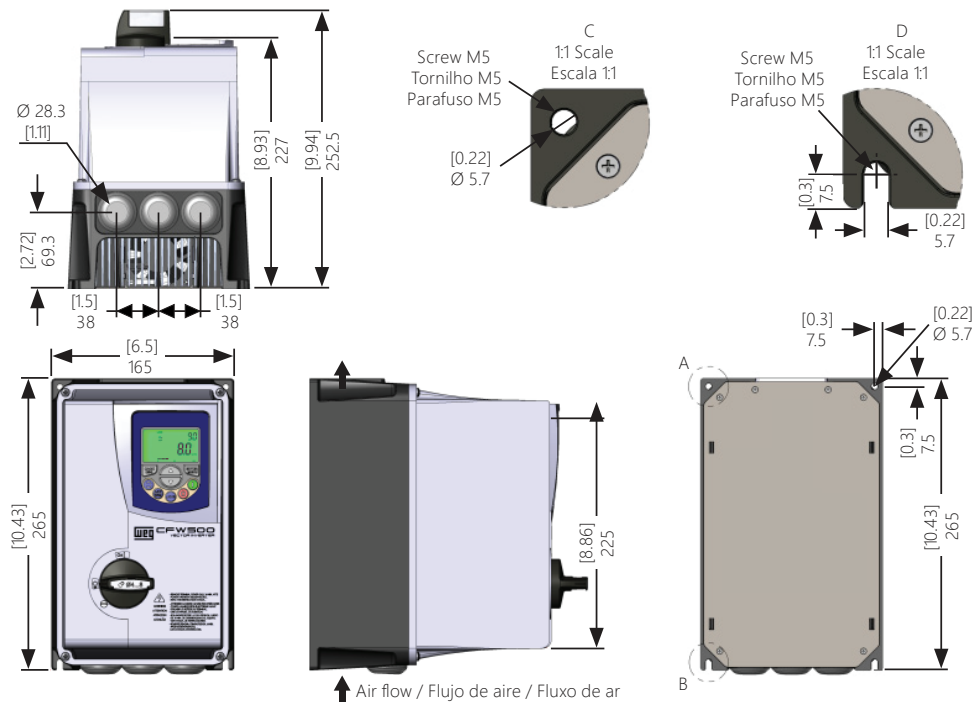


Figure A.1: Dimensions of the CFW500 IP66 frame size A  
 Figura A.1: Dimensiones CFW500 IP66 tamaño A  
 Figura A.1: Dimensões CFW500 IP66 mecânica A

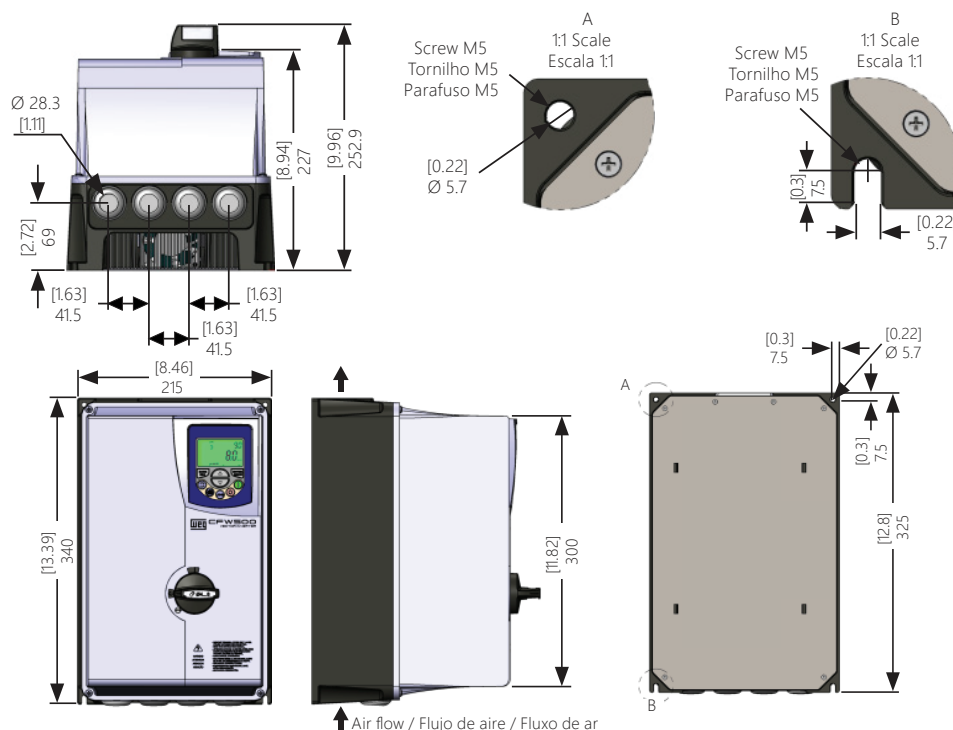


Figure A.2: Dimensions of the CFW500 IP66 frame size B  
 Figura A.2: Dimensiones CFW500 IP66 tamaño B  
 Figura A.2: Dimensões CFW500 IP66 mecânica B





# CFW500 AC Drives – Accessories

## WEG CFW500 Accessory Setup and Compatibility

Optional accessories for the WEG CFW500 series drives can be easily installed using the “plug and play” method. Installed accessories are automatically recognized by the drive, and the code for the connected part is added to parameter P027.

All accessories must be installed or modified with power disconnected from the drive.

Reference the table to the right to determine which accessories are compatible with each drive type.

Refer to the following pages for details about each accessory.

WEG CFW500 Available Accessories				
WEG MAT #	Model #	Description	IP20 Series Drives	IP66 Series Drives
<a href="#">14741859</a>	CFW500-IOS	Standard plug-in module, replacement	✓	✓
<a href="#">14742006</a>	CFW500-IOD	Digital input and output plug-in module (I/O)	✓	✓
<a href="#">14742129</a>	CFW500-IOAD	Digital and analog input and output plug-in module (I/O)	✓	✓
<a href="#">14968050</a>	CFW500-IOR-B	Digital output communication plug-in module	✓	✓
<a href="#">14742001</a>	CFW500-CUSB	USB communication plug-in module	✓	✓
<a href="#">14742005</a>	CFW500-CRS232	RS232 communication plug-in module	✓	✓
<a href="#">15353140</a>	CFW500-CRS485-B	RS485 communication plug-in module	✓	✓
<a href="#">12619000</a>	CFW500-ENC	Encoder input module	✓	✓
<a href="#">12892814</a>	CFW500-CETH-IP	EtherNet/IP communication plug-in module	✓	✓
<a href="#">12892815</a>	CFW500-CEMB-TCP	Modbus TCP communication plus-in module	✓	✓
<a href="#">15560296</a>	CFW500-SFY2	Safety function module (STO and SS1-t)*	✓	✓
<a href="#">11636485</a>	CFW500-MMF	Flash memory module	✓	✓
<a href="#">11833992</a>	CFW500-HMIR	Serial remote keypad (non-text)	✓	✓
<a href="#">15578295</a>	HMI-01	Advanced remote keypad (text)	✓	✓
<a href="#">15578297</a>	CFW500-RHMIF	Mounting frame for HMI-01 keypad	✓	✓
<a href="#">12330016</a>	CFW500-CCHMIR01M	1m serial remote keypad cable kit	✓	✓
<a href="#">12330460</a>	CFW500-CCHMIR03M	3m serial remote keypad cable kit	✓	✓
<a href="#">12330461</a>	CFW500-CCHMIR05M	5m serial remote keypad cable kit	✓	✓
<a href="#">12330463</a>	CFW500-CCHMIR10M	10m serial remote keypad cable kit	✓	✓
<a href="#">11527460</a>	CFW500-KN1A	NEMA1 kit for frame size A (standard for option N1)	✓	–
<a href="#">11527459</a>	CFW500-KN1B	NEMA1 kit for frame size B (standard for option N1)	✓	–
<a href="#">12133824</a>	CFW500-KN1C	NEMA1 kit for frame size C (standard for option N1)	✓	–
<a href="#">12692970</a>	CFW500-KN1D	NEMA1 kit for frame size D (standard for option N1)	✓	–
<a href="#">13104601</a>	CFW500-KN1E	NEMA1 kit for frame size E (standard for option N1)	✓	–
<a href="#">14601107</a>	CFW500-KN1F	NEMA1 kit for frame size F (standard for option N1)	✓	–
<a href="#">15461789</a>	CFW500-KN1G	NEMA1 kit for frame size G (standard for option N1)	✓	–
<a href="#">11951056</a>	CFW500-KPCSA	Kit for power cables clamping, frame size A**	✓	–
<a href="#">11951108</a>	CFW500-KPCSB	Kit for power cables clamping, frame size B**	✓	–
<a href="#">12133826</a>	CFW500-KPCSC	Kit for power cables clamping, frame size C**	✓	–
<a href="#">12692971</a>	CFW500-KPCSD	Kit for power cables clamping, frame size D**	✓	–
<a href="#">13055389</a>	CFW500-KPCSE	Kit for power cables clamping, frame size E**	✓	–
<a href="#">14601158</a>	CFW500-KPCSF	Kit for power cables clamping, frame size F**	✓	–
<a href="#">15461788</a>	CFW500-KPCSG	Kit for power cables clamping, frame size G**	✓	–
<a href="#">14391148</a>	CFW50X-FAN-A	Main cooling fan, replacement, 60x60x15 mm	✓	–
<a href="#">12350492</a>	CFW50X-FAN-BC	Main cooling fan, replacement, 70x70x15 mm	✓	–
<a href="#">14391151</a>	CFW50X-FAN-D1	Main cooling fan, replacement, 60x60x25.4 mm	✓	–
<a href="#">12852366</a>	CFW50X-FAN-D2	Main cooling fan, replacement, 60x60x38 mm	✓	–
<a href="#">14391152</a>	CFW50X-FAN-D3	Main cooling fan, replacement, 60x60x25.4 mm	✓	–
<a href="#">12852367</a>	CFW50X-FAN-D4	Main cooling fan, replacement, 60x60x38 mm	✓	–
<a href="#">13770165</a>	CFW50X-FAN-E	Main cooling fan, replacement, 80x80x38 mm	✓	–
<a href="#">15245117</a>	CFW50X-FAN-F1	Main cooling fan, replacement, 80x80x38 mm	✓	–
<a href="#">12295730</a>	CFW50X-FAN-G1	Main cooling fan, replacement, 15x172x51 mm, 24 VDC	✓	–
<a href="#">12295732</a>	CFW50X-FAN-G2	Main cooling fan, replacement, 15x172x51 mm, 48 VDC	✓	–

\* The STO module cannot be used in conjunction with a NEMA1 kit for IP20 Frames A-E.

\*\* The power cable clamping kits cannot be used in conjunction with a NEMA1 kit.



# CFW500 AC Drives – Accessories

## WEG CFW500 Safety Module

The CFW500-SFY2 is a safety module capable of providing STO (Safe Torque Off) and SS1-t (Safe Stop 1 Time Controlled) safety operations.

- The STO function disables torque-generating power to the motor. This method of disabling the motor is very reliable against unexpected motor starts, even under a fault condition. When activated, the STO safety function blocks power from the drive's output electronic circuit, causing the motor to coast to a stop.
- The SS1-t function also disables torque-generating power to the motor but waits a predetermined period of time to allow the drive to impose a deceleration ramp before removing torque. This is especially useful in situations where inertial loads need to be decelerated before torque is removed from the motor.

The CFW500-SFY2 module can be installed on any CFW500 series drive in a dedicated slot on the top of the drive. It does not conflict with the installation of I/O or communications modules.



WEG CFW500 Safety Module							
WEG MAT #	Model #	Price	Description	Features/Specifications		Drawing Link	CFW500 Drive
<a href="#">15560296</a>	CFW500-SFY2	\$72.00	Safety function module (STO and SS1-t)*	<b>Safety functions</b>	Safe torque off (STO) according to IEC/EN 61800-6-2 or stop category 0 according to IEC/EN 60204-1	<a href="#">PDF</a>	All
					Safe stop 1 time controlled (SS1-t) according to IEC/EN 61800-6-2 or stop category 1 according to IEC/EN 60204-1		
				<b>Safety category</b>	SIL 3, per IEC 61508 / IEC 62061 / IEC 61800-5-2 PL e, category 4, as pwer EN ISO 13849-1		
				<b>PFD<sub>avg</sub></b>	< 2.74 x 10 <sup>-4</sup>		
				<b>PFH (1/h)</b>	<3.13 x 10 <sup>-9</sup>		
				<b>MTTF<sub>d</sub>(y)</b>	> 1600 years		
				<b>DC<sub>avg</sub></b>	93%		
				<b>Proof test interval</b>	20 years		
				<b>Response/reaction time</b>	<100ms		
				<b>OSSD test pulses</b>	Pulse duration: <1ms Interval between pulses on same channel: >8ms Interval between pulses on different channels: >4ms		
				<b>Safety input signals</b>	ON: 15VDC – 30 VDC		
				<b>Maximum discrepancy time between safety input signals</b>	1s		
<b>Safety power supply</b>	+24VDC ± 15% SELV type according to IEC 60950-1 PELV type according to IEC 60204-1						

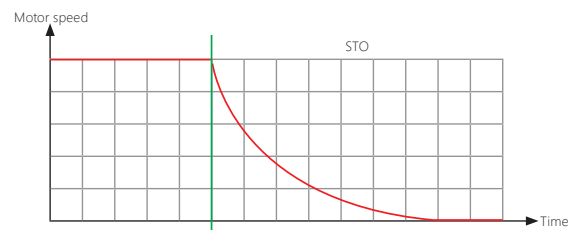


Figure 1.1: STO behavior

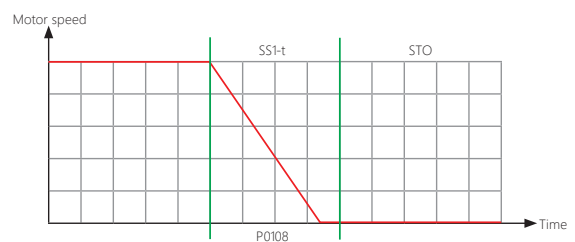


Figure 1.2: SS1-t behavior

# WEG CFW500 AC Drives – Accessories

## WEG CFW500 Optional Input/Output Accessories

Each WEG CFW500 drive comes with a CFW500-IOS (p/n 14741859) pre-installed, but other modules are available as optional accessories.

To use any of the optional modules, the existing module must be removed and replaced with the new module.

The first table below shows the I/O modules that are available for WEG CFW500 drives. The second table provides their I/O configurations

WEG CFW500 Input/Output (I/O) Modules						
WEG MAT #	Model #	Price	Description	Features/Specifications	Drawing Link	CFW500 Drive
<a href="#">14741859</a>	CFW500-IOS	\$56.00	Standard plug-in module, replacement	Replacement for CFW500-IOS module that comes standard with all WEG CFW500 drives. <ul style="list-style-type: none"> <li>Analog input: 1-channel, current/voltage</li> <li>Analog output: 1-channel, current/voltage</li> <li>Discrete input: 4-point, sourcing</li> <li>Discrete output: 2-point, relay</li> <li>(1) Form C (SPDT) relay</li> </ul>	<a href="#">PDF</a>	All
<a href="#">14742006</a>	CFW500-IOD	\$72.00	Digital input and output plug-in module (I/O)	WEG Electric CFW500 series relay/analog combo module. <ul style="list-style-type: none"> <li>Analog input: 1-channel, current/voltage</li> <li>Analog output: 1-channel, current/voltage</li> <li>Discrete input: 8-point, sourcing</li> <li>Discrete output: 5-point, relay</li> <li>(1) Form C (SPDT) relay</li> </ul>	<a href="#">PDF</a>	All
<a href="#">14742129</a>	CFW500-IOAD	\$93.00	Digital and analog input and output plug-in module (I/O)	WEG Electric CFW500 series relay/analog combo module. <ul style="list-style-type: none"> <li>Analog input: 3-channel, current/voltage</li> <li>Analog output: 2-channel, current/voltage</li> <li>Discrete input: 6-point, sourcing</li> <li>Discrete output: 4-point, relay</li> <li>(1) Form C (SPDT) relay</li> </ul>	<a href="#">PDF</a>	All
<a href="#">14968050</a>	CFW500-IOR-B	\$63.00	Digital output communication plug-in module	WEG Electric CFW500 series relay/analog combo module. <ul style="list-style-type: none"> <li>Analog input: 1-channel, current/voltage</li> <li>Analog output: 1-channel, current voltage</li> <li>Discrete input: 5-point, sinking/sourcing</li> <li>Discrete output: 5-point relay</li> <li>(3) Form A (SPST) relays, (1) Form C (SPDT) relay</li> </ul>	<a href="#">PDF</a>	All
<a href="#">12619000</a>	CFW500-ENC	\$107.00	Encoder input module	WEG Electric CFW500 series encoder analog combo module. <ul style="list-style-type: none"> <li>400kHz maximum switching frequency</li> <li>1-channel quadrature encoder input</li> <li>Analog input: 1-channel</li> <li>Analog Output: 1-channel</li> </ul>	<a href="#">PDF</a>	All

WEG CFW500 I/O Module Configurations										
WEG MAT #	Model #	Functions								
		Inputs		Encoder Inputs	Outputs			Fieldbus Networks	Supply	
		Digital	Analog		Analog	Digital Relay	Digital Transistor	RS485	10V	24V
<a href="#">14741859</a>	CFW500-IOS	4	1	—	1	1	1	1	1	1
<a href="#">14742006</a>	CFW500-IOD	8	1	—	1	1	4	1	1	1
<a href="#">14742129</a>	CFW500-IOAD	6	3	—	2	1	3	1	1	1
<a href="#">14968050</a>	CFW500-IOR-B	5	1	—	1	4	1	1	1	1
<a href="#">12619000</a>	CFW500-ENC	5	1	1	1	3	1	1	—	1



14741859



14968050



12619000

# WEG CFW500 AC Drives – Accessories

## WEG CFW500 Optional Communication Modules

Each WEG CFW500 drive comes with a CFW500-IOS (p/n 14741859) pre-installed, but other modules are available as optional accessories.

To use any of the optional modules, the existing module must be removed and replaced with the new module.

The following communication modules are available for WEG CFW500 drives:

WEG CFW500 Communication Modules						
WEG MAT #	Model #	Price	Description	Features/Specifications	Drawing Link	CFW500 Drive
<a href="#"><u>14742001*</u></a>	CFW500-CUSB	\$107.00	USB communication plug-in module	WEG Electric CFW500 series communication module, Modbus RTU and BACnet. • (1) RS-485 (3-pin terminal) port • (1) miniB-USB port	<a href="#"><u>PDF</u></a>	All
<a href="#"><u>14742005</u></a>	CFW500-CRS232	\$71.00	RS232 communication plug-in module	WEG Electric CFW500 series communication module, Modbus RTU and BACnet. • (1) RS-232 (3-pin terminal) port • (1) RS-485 (3-pin terminal) port	<a href="#"><u>PDF</u></a>	All
<a href="#"><u>15353140</u></a>	CFW500-CRS485-B	\$73.00	RS485 communication plug-in module	WEG Electric CFW500 series communication module, Modbus RTU and BACnet. • (2) RS-485 (3-pin terminal) ports	<a href="#"><u>PDF</u></a>	All
<a href="#"><u>12892814</u></a>	CFW500-CETH-IP	\$255.00	EtherNet/IP communication plug-in module	WEG Electric CFW500 series communication module, EtherNet/IP, Modbus RTU, and BACnet. • (1) Ethernet (RJ45) port • (1) RS-485 (3-pin terminal) port	<a href="#"><u>PDF</u></a>	All
<a href="#"><u>12892815</u></a>	CFW500-CEMB-TCP	\$255.00	Modbus TCP communication plus-in module	WEG Electric CFW500 series communication module, Modbus TCP, Modbus RTU, and BACnet. • (1) Ethernet (RJ45) port • (1) RS-485 (3-pin terminal) port	<a href="#"><u>PDF</u></a>	All

\* The USB plug-in module (14742001) requires a Virtual Com Port driver. This driver can be found at <http://www.ftdichip.com/Drivers/VCP.htm>

WEG CFW500 Communication Module Configurations													
WEG MAT #	Model #	Functions											
		Inputs		Outputs			USB Port	Fieldbus Networks				Supply	
		Digital	Analog	Analog	Digital Relay	Digital Transistor		RS232	RS485	EtherNet/IP	Modbus-TCP	10V	24V
<a href="#"><u>14742001</u></a>	CFW500-CUSB	4	1	1	1	1	1	–	1	–	–	1	1
<a href="#"><u>14742005</u></a>	CFW500-CRS232	2	1	1	1	1	–	1	1	–	–	–	1
<a href="#"><u>15353140</u></a>	CFW500-CRS485-B	4	2	1	2	1	–	–	2	–	–	1	1
<a href="#"><u>12892814</u></a>	CFW500-CETH-IP	2	1	1	1	1	–	–	1	1	–	–	1
<a href="#"><u>12892815</u></a>	CFW500-CEMB-TCP	2	1	1	1	1	–	–	1	–	1	–	1



14742001



14742005



12892814





# CFW500 AC Drives – Accessories

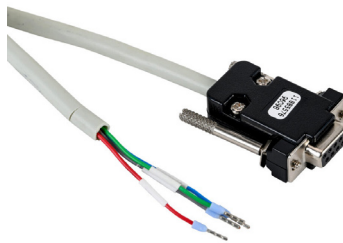
## WEG CFW500 HMI Accessories and Cables

The WEG CFW500 has several optional HMI accessories. Two remote keypads (standard and advanced) along with connecting cables, a NEMA12 mounting frame, and a flash memory module for transferring parameters and user data are available. All of these modules can work in conjunction with any other installed optional accessories.

WEG CFW500 HMI Accessories						
WEG MAT #	Model #	Price	Description	Features/Specifications	Drawing Link	CFW500 Drive
<a href="#">11833992</a>	CFW500-HMIR	\$86.00	Serial remote keypad	WEG Electric CFW500 series remote serial HMI keypad. Mounting hardware included. HMI cable kit required.	<a href="#">PDF</a>	All
<a href="#">15578295</a>	HMI-01	\$104.00	Advanced remote keypad	WEG Electric CFW500 series remote advanced text HMI keypad. Mounting hardware included. HMI cable kit required.	<a href="#">PDF</a>	All
<a href="#">15578297</a>	CFW500-RHMIF	\$13.00	Frame for Advanced keypad	WEG Electric CFW500 series frame assembly, NEMA12. For use with the remote advanced text keypad (HMI-01). Mounting hardware included.	<a href="#">PDF</a>	All
<a href="#">12330016</a>	CFW500-CCHMIR01M	\$12.00	1m serial remote keypad cable kit	WEG Electric CFW500 series keypad mounting cable, cable length 3.2 ft [1m].	<a href="#">PDF</a>	All
<a href="#">12330460</a>	CFW500-CCHMIR03M	\$21.00	3m serial remote keypad cable kit	WEG Electric CFW500 series keypad mounting cable, cable length 9.8 ft [3m].	<a href="#">PDF</a>	All
<a href="#">12330461</a>	CFW500-CCHMIR05M	\$26.00	5m serial remote keypad cable kit	WEG Electric CFW500 series keypad mounting cable, cable length 16.4 ft [5m].	<a href="#">PDF</a>	All
<a href="#">12330463</a>	CFW500-CCHMIR10M	\$37.00	10m serial remote keypad cable kit	WEG Electric CFW500 series keypad mounting cable, cable length 32.8 ft [10m].	<a href="#">PDF</a>	All
<a href="#">11636485</a>	CFW500-MMF	\$97.00	Flash memory module	WEG Electric CFW500 series flash memory module. <ul style="list-style-type: none"> <li>Allows data transfer such as user parameters and SoftPLC user programs</li> <li>Battery powered, drive should be disconnected from power during data transfer</li> <li>DO NOT USE when the drive is powered on</li> </ul>	<a href="#">PDF</a>	All



11833992



1233 series cable



11636485



15578295

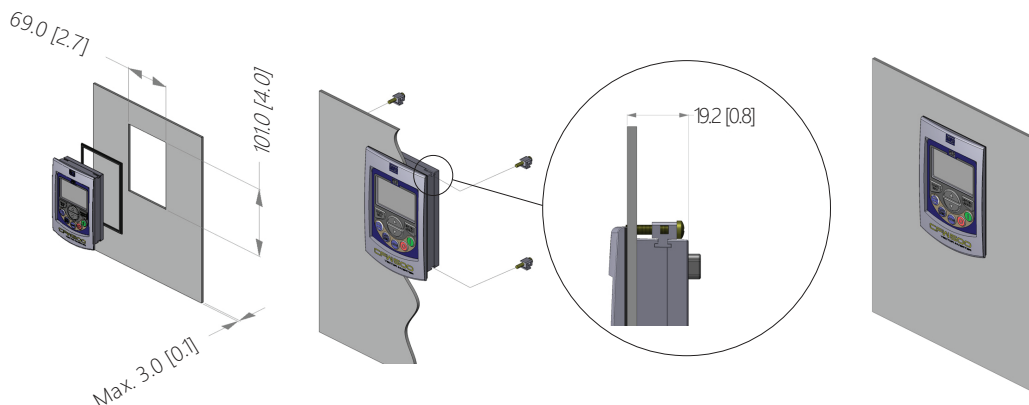


15578297

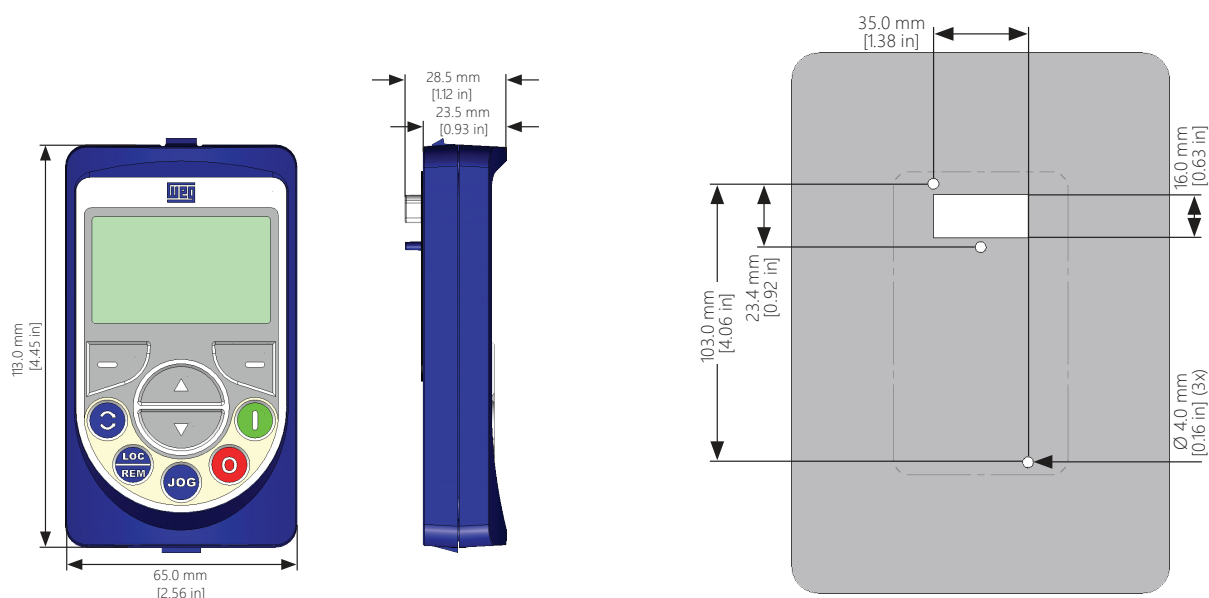
# WEG CFW500 AC Drives – Accessories

## WEG CFW500 HMI Accessories Mounting and Installation

### Standard Remote Keypad Mounting



### Advanced Remote Keypad Mounting



### Flash Module Mounting





# WEG CFW500 AC Drives – Accessories

## WEG CFW500 Optional NEMA1 Frame Kits

NEMA1 frame kits are available for all CFW500 series IP20 rated drives. These kits will upgrade the drive enclosure to the NEMA1 standard. Note that the NEMA1 frame kits are NOT compatible with the CFW500 series IP66 rated drives.



Note: The NEMA1 frame kits cannot be used with the CFW500 series cable clamps - these two accessories are mutually exclusive.

WEG CFW500 NEMA1 Frame Kits					
WEG MAT #	Model #	Price	Description	Features/Specifications	Drawing Link
<a href="#"><u>11527460</u></a>	CFW500-KN1A	\$14.00	NEMA1 kit for frame size A (standard for option N1)	WEG Electric CFW500 series conduit box, NEMA1. For use with WEG CFW500 series A Frame AC drives. Mounting hardware included.	<a href="#"><u>PDF</u></a>
<a href="#"><u>11527459</u></a>	CFW500-KN1B	\$16.50	NEMA1 kit for frame size B (standard for option N1)	WEG Electric CFW500 series conduit box, NEMA1. For use with WEG CFW500 series B Frame AC drives. Mounting hardware included.	<a href="#"><u>PDF</u></a>
<a href="#"><u>12133824</u></a>	CFW500-KN1C	\$22.50	NEMA1 kit for frame size C (standard for option N1)	WEG Electric CFW500 series conduit box, NEMA1. For use with WEG CFW500 series C Frame AC drives. Mounting hardware included.	<a href="#"><u>PDF</u></a>
<a href="#"><u>12692970</u></a>	CFW500-KN1D	\$30.00	NEMA1 kit for frame size D (standard for option N1)	WEG Electric CFW500 series conduit box, NEMA1. For use with WEG CFW500 series D Frame AC drives. Mounting hardware included.	<a href="#"><u>PDF</u></a>
<a href="#"><u>13104601</u></a>	CFW500-KN1E	\$33.00	NEMA1 kit for frame size E (standard for option N1)	WEG Electric CFW500 series conduit box, NEMA1. For use with WEG CFW500 series E Frame AC drives. Mounting hardware included.	<a href="#"><u>PDF</u></a>
<a href="#"><u>14601107</u></a>	CFW500-KN1F	\$84.00	NEMA1 kit for frame size F (standard for option N1)	WEG Electric CFW500 series conduit box, NEMA1. For use with WEG CFW500 series F Frame AC drives. Mounting hardware included.	<a href="#"><u>PDF</u></a>
<a href="#"><u>15461789</u></a>	CFW500-KN1G	\$106.00	NEMA1 kit for frame size G (standard for option N1)	WEG Electric CFW500 series conduit box, NEMA1. For use with WEG CFW500 series G Frame AC drives. Mounting hardware included.	<a href="#"><u>PDF</u></a>





# CFW500 AC Drives – Accessories

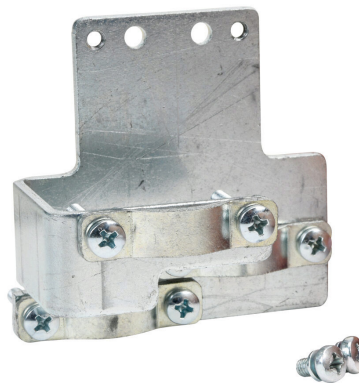
## WEG CFW500 Optional Cable Clamps

The optional cable clamps can be used to provide strain relief for the cabling connected to the drive. The clamps hold the cable by the outer jacket so that the drive connection is not providing the main support to the cable. This protects the individual conductors attached to the terminals of the drive.



Note: The NEMA1 frame kits cannot be used with the CFW500 sries cable clamps - these two accessories are mutually exclusive.

WEG CFW500 Cable Clamp Kits						
WEG MAT #	Model #	Price	Description	Features/Specifications	Drawing Link	CFW500 Drive
<a href="#"><u>11951056</u></a>	CFW500-KPCSA	\$21.00	Kit for power cables clamping, frame size A	WEG Electric CFW500 series cable clamp. • Allows for strain relief clamping of power and motor leads at the drive. • For use with CFW500 series A Frame AC drives.	<a href="#"><u>PDF</u></a>	IP20
<a href="#"><u>11951108</u></a>	CFW500-KPCSB	\$22.50	Kit for power cables clamping, frame size B	WEG Electric CFW500 series cable clamp. • Allows for strain relief clamping of power and motor leads at the drive. • For use with CFW500 series B Frame AC drives.	<a href="#"><u>PDF</u></a>	IP20
<a href="#"><u>12133826</u></a>	CFW500-KPCSC	\$23.50	Kit for power cables clamping, frame size C	WEG Electric CFW500 series cable clamp. • Allows for strain relief clamping of power and motor leads at the drive. • For use with CFW500 series C Frame AC drives.	<a href="#"><u>PDF</u></a>	IP20
<a href="#"><u>12692971</u></a>	CFW500-KPCSD	\$26.00	Kit for power cables clamping, frame size D	WEG Electric CFW500 series cable clamp. • Allows for strain relief clamping of power and motor leads at the drive. • For use with CFW500 series D Frame AC drives.	<a href="#"><u>PDF</u></a>	IP20
<a href="#"><u>13055389</u></a>	CFW500-KPCSE	\$33.00	Kit for power cables clamping, frame size E	WEG Electric CFW500 series cable clamp. • Allows for strain relief clamping of power and motor leads at the drive. • For use with CFW500 series E Frame AC drives.	<a href="#"><u>PDF</u></a>	IP20
<a href="#"><u>14601158</u></a>	CFW500-KPCSF	\$72.00	Kit for power cables clamping, frame size F	WEG Electric CFW500 series cable clamp. • Allows for strain relief clamping of power and motor leads at the drive. • For use with CFW500 series F Frame AC drives.	<a href="#"><u>PDF</u></a>	IP20
<a href="#"><u>15461788</u></a>	CFW500-KPCSG	\$89.00	Kit for power cables clamping, frame size G	WEG Electric CFW500 series cable clamp. • Allows for strain relief clamping of power and motor leads at the drive. • For use with CFW500 series G Frame AC drives.	<a href="#"><u>PDF</u></a>	IP20



CFW500 Cable Clamp



# CFW500 AC Drives – Accessories

## WEG CFW500 Replacement Cooling Fans

Replacement cooling fans are available for all IP20 models of the CFW500 AC Drive. Simply remove the old fan and install the replacement part.

WEG CFW500 Replacement Fan Kits						
WEG MAT #	Model #	Price	Description	Features/Specifications	Drawing Link	CFW500 Drive
<a href="#"><u>14391148</u></a>	CFW50X-FAN-A	\$65.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. • 60 x 60 x 15 mm • 24 VDC • For use with CFW500 series A Frame AC drives	<a href="#"><u>PDF</u></a>	IP20, Frame A
<a href="#"><u>12350492</u></a>	CFW50X-FAN-BC	\$62.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. • 70 x 70 x 15 mm • 12 VDC • For use with CFW500 series B and C Frame AC drives	<a href="#"><u>PDF</u></a>	IP20, Frame B and C
<a href="#"><u>14391151</u></a>	CFW50X-FAN-D1	\$65.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. • 60 x 60 x 25.4 mm • 24 VDC • For use with CFW500 series drive # 15575716	<a href="#"><u>PDF</u></a>	15575716
<a href="#"><u>12852366</u></a>	CFW50X-FAN-D2	\$283.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. • 60 x 60 x 38 mm • 24 VDC • For use with CFW500 series drive # 15576540	<a href="#"><u>PDF</u></a>	15576540
<a href="#"><u>14391152</u></a>	CFW50X-FAN-D3	\$65.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. • 60 x 60 x 25.4 mm • 24 VDC • For use with CFW500 series drive # 15576919	<a href="#"><u>PDF</u></a>	15576919
<a href="#"><u>12852367</u></a>	CFW50X-FAN-D4	\$215.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. • 60 x 60 x 38 mm • 24 VDC • For use with CFW500 series drive # 15577021	<a href="#"><u>PDF</u></a>	15577021
<a href="#"><u>13770165</u></a>	CFW50X-FAN-E	\$257.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. • 80 x 80 x 38 mm • 24 VDC • For use with CFW500 series E Frame AC drives	<a href="#"><u>PDF</u></a>	IP20, Frame E
Continued on next page						



**Frame A  
Replacement Fan**



**Frame B and C  
Replacement Fan**



**Frame D (dual fan model)  
Replacement Fan**



**Frame E  
Replacement Fan**



# CFW500 AC Drives – Accessories

## WEG CFW500 Replacement Cooling Fans, continued

WEG CFW500 Replacement Fan Kits						
WEG MAT #	Model #	Price	Description	Features/Specifications	Drawing Link	CFW500 Drive
<a href="#"><u>15245117</u></a>	CFW50X-FAN-F1	\$247.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. <ul style="list-style-type: none"> <li>• 80 x 80 x 38 mm</li> <li>• 24VDC</li> <li>• For use with CFW500 series F Frame AC drives</li> </ul>	<a href="#"><u>PDF</u></a>	IP20, Frame F
<a href="#"><u>12295730</u></a>	FAN 24VDC CAB 40mm	\$334.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. <ul style="list-style-type: none"> <li>• 150 x 172 x 51 mm</li> <li>• 24VDC</li> <li>• For use with CFW500 series G frame 75hp AC drives</li> </ul>	<a href="#"><u>PDF</u></a>	IP20, Frame G
<a href="#"><u>12295732</u></a>	FAN 48VDC CAB 60mm	\$596.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. <ul style="list-style-type: none"> <li>• 150 x 172 x 51 mm</li> <li>• 48VDC</li> <li>• For use with CFW500 series G frame 100 and 150 hp AC drives</li> </ul>	<a href="#"><u>PDF</u></a>	IP20, Frame G
<a href="#"><u>15746587</u></a>	CFW500-66-FAN-AB	\$62.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. <ul style="list-style-type: none"> <li>• 60 x 60 x 25 mm</li> <li>• 12VDC</li> <li>• For use with CFW500 series IP66 230VAC 7.5 hp and below, 480VAC 10hp and below AC drives</li> </ul>	<a href="#"><u>PDF</u></a>	IP66, Frame A & B
<a href="#"><u>15746630</u></a>	CFW500-66-FAN-B	\$106.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. <ul style="list-style-type: none"> <li>• 60 x 60 x 38 mm</li> <li>• 24VDC</li> <li>• For use with CFW500 series IP66 230VAC 10hp, 480VAC 15 and 20 hp AC drives</li> </ul>	<a href="#"><u>PDF</u></a>	IP66 Frame B



**Frame F  
Replacement Fan**



**Frame G  
Replacement Fan**



# CFW500 Compatible Accessories

## Fuses and Circuit Breakers for WEG CFW500 AC Drives

Protection devices are essential to prevent damage to your WEG CFW500 drive and application equipment. Please use the fuse specification chart below to select fuses that are applicable to your WEG CFW500 drive. Only use UL-certified fuses which comply with your local regulations.

Fuse Specification Chart WEG CFW500 Drives							
WEG MAT #	Model #	Input Voltage	Amps	Fuse			
				Class J <sup>1</sup>		Class J Holder	
				1-Phase	3-Phase	1-Phase	3-Phase
IP20 Drives							
<a href="#">15570800</a>	CFW500A01P6B2NB20G2	1-phase or 3-phase / 230VAC	20	<a href="#">JHL20 (JHL20-1)</a>	<a href="#">JHL20 (JHL20-1)</a>	<a href="#">JM60030-2CR</a>	<a href="#">JM60030-3CR</a>
<a href="#">15571879</a>	CFW500A02P6B2NB20G2		20	<a href="#">JHL20 (JHL20-1)</a>	<a href="#">JHL20 (JHL20-1)</a>	<a href="#">JM60030-2CR</a>	<a href="#">JM60030-3CR</a>
<a href="#">15571881</a>	CFW500A04P3B2NB20G2		25	<a href="#">JHL25 JHL25-1</a>	<a href="#">JHL20 (JHL20-1)</a>	<a href="#">JM60030-2CR</a>	<a href="#">JM60030-3CR</a>
<a href="#">15574655</a>	CFW500B07P3B2DB20G2		40	<a href="#">JHL40 (JHL40-1)</a>	<a href="#">JHL20 (JHL20-1)</a>	<a href="#">JM60060-2CR</a>	<a href="#">JM60030-3CR</a>
<a href="#">15575067</a>	CFW500B10P0B2DB20G2		60	<a href="#">JHL60 (JHL60-1)</a>	<a href="#">JHL25 JHL25-1</a>	<a href="#">JM60060-2CR</a>	<a href="#">JM60030-3CR</a>
<a href="#">15572625</a>	CFW500A07P0T2NB20G2	3-phase / 230VAC	20	-	<a href="#">JHL20 (JHL20-1)</a>	-	<a href="#">JM60030-3CR</a>
<a href="#">15572689</a>	CFW500A09P6T2NB20G2		25		<a href="#">JHL25 JHL25-1</a>		<a href="#">JM60030-3CR</a>
<a href="#">15575202</a>	CFW500B16P0T2DB20G2		40		<a href="#">JHL40 (JHL40-1)</a>		<a href="#">JM60060-3CR</a>
<a href="#">15575701</a>	CFW500C24P0T2DB20G2		60		<a href="#">JHL60 (JHL60-1)</a>		<a href="#">JM60060-3CR</a>
<a href="#">15575716</a>	CFW500D28P0T2DB20G2		60		<a href="#">JHL60 (JHL60-1)</a>		<a href="#">JM60060-3CR</a>
<a href="#">15576540</a>	CFW500D47P0T2DB20G2		60		<a href="#">JHL100</a>		<a href="#">JM60100-1MW14-3</a>
<a href="#">15577077</a>	CFW500E56P0T2DB20G2		125		<a href="#">JHL125</a>		<a href="#">JM60200-1MW16-3</a>
<a href="#">15342437</a>	CFW500F77P0T2DB20G2		125		Mersen A100P125-4 <sup>3</sup>		Mersen P266L <sup>3</sup>
<a href="#">15342760</a>	CFW500F88P0T2DB20G2		125		Mersen A100P125-4 <sup>3</sup>		Mersen P266L <sup>3</sup>
<a href="#">15342909</a>	CFW500F0105T2DB20G2		125		Mersen A100P125-4 <sup>3</sup>		Mersen P266L <sup>3</sup>
<a href="#">15572819</a>	CFW500A01P0T4NB20G2		20		<a href="#">JHL20 (JHL20-1)</a>		<a href="#">JM60030-3CR</a>
<a href="#">15572908</a>	CFW500A01P6T4NB20G2		20		<a href="#">JHL20 (JHL20-1)</a>		<a href="#">JM60030-3CR</a>
<a href="#">15573714</a>	CFW500A02P6T4NB20G2		20		<a href="#">JHL20 (JHL20-1)</a>		<a href="#">JM60030-3CR</a>
<a href="#">15573819</a>	CFW500A04P3T4NB20G2		20		<a href="#">JHL20 (JHL20-1)</a>		<a href="#">JM60030-3CR</a>
<a href="#">15573823</a>	CFW500A06P1T4NB20G2		20		<a href="#">JHL20 (JHL20-1)</a>		<a href="#">JM60030-3CR</a>
<a href="#">15575568</a>	CFW500B02P6T4DB20G2	20	<a href="#">JHL20 (JHL20-1)</a>	<a href="#">JM60030-3CR</a>			
<a href="#">15575577</a>	CFW500B04P3T4DB20G2	20	<a href="#">JHL20 (JHL20-1)</a>	<a href="#">JM60030-3CR</a>			
<a href="#">15575665</a>	CFW500B06P5T4DB20G2	20	<a href="#">JHL20 (JHL20-1)</a>	<a href="#">JM60030-3CR</a>			
<a href="#">15575699</a>	CFW500B10P0T4DB20G2	25	<a href="#">JHL25 JHL25-1</a>	<a href="#">JM60030-3CR</a>			
<a href="#">15575707</a>	CFW500C14P0T4DB20G2	35	<a href="#">JHL35 (JHL35-1)</a>	<a href="#">JM60060-3CR</a>			
<a href="#">15575711</a>	CFW500C16P0T4DB20G2	35	<a href="#">JHL35 (JHL35-1)</a>	<a href="#">JM60060-3CR</a>			
<a href="#">15576919</a>	CFW500D24P0T4DB20G2	60	<a href="#">JHL60 (JHL60-1)</a>	<a href="#">JM60060-3CR</a>			
<a href="#">15577021</a>	CFW500D31P0T4DB20G2	60	<a href="#">JHL60 (JHL60-1)</a>	<a href="#">JM60060-3CR</a>			
<a href="#">15577211</a>	CFW500E39P0T4DB20G2	80	<a href="#">JHL80</a>	<a href="#">JM60100-1MW14-3</a>			
<a href="#">15577452</a>	CFW500E49P0T4DB20G2	100	<a href="#">JHL100</a>	<a href="#">JM60100-1MW14-3</a>			
<a href="#">15733937</a>	CFW500F77P0T4DB20G2	125	<a href="#">JHL125</a>	<a href="#">JM60200-1MW16-3</a>			
<a href="#">15734064</a>	CFW500F88P0T4DB20G2	125	<a href="#">JHL125</a>	<a href="#">JM60200-1MW16-3</a>			
<a href="#">15734119</a>	CFW500F0105T4DB20G2	125	<a href="#">JHL125</a>	<a href="#">JM60200-1MW16-3</a>			
<a href="#">15448371</a>	CFW500G0142T4DB20G2	300	Mersen A100P300-4 <sup>3</sup>	3 x Mersen P266L <sup>3</sup>			
<a href="#">15448372</a>	CFW500G0180T4DB20G2	300	Mersen A100P300-4 <sup>3</sup>	3 x Mersen P266L <sup>3</sup>			
<a href="#">15448373</a>	CFW500G0211T4DB20G2	300	Mersen A100P300-4 <sup>3</sup>	3 x Mersen P266L <sup>3</sup>			
Table continued on next page							

Table continued on next page

1 - Per UL standard

2 - Non UL standard

3 - Not available at AutomationDirect



# CFW500 Compatible Accessories

## Fuses and Circuit Breakers, *continued*

Fuse Specification Chart WEG CFW500 Drives, continued							
WEG MAT #	Model #	Input Voltage	Amps	Fuse			
				Class J <sup>1</sup>		Class J Holder	
				1-Phase	3-Phase	1-Phase	3-Phase
Table continued from previous page							
IP66 Drives							
14990863	CFW500A01P6B2DB66DSG2	1-phase or 3-phase / 230VAC	20	JHL20 (JHL20-1)	JHL20 (JHL20-1)	JM60030-2CR	JM60030-3CR
14991103	CFW500A02P6B2DB66DSG2		20	JHL20 (JHL20-1)	JHL20 (JHL20-1)	JM60030-2CR	JM60030-3CR
14991753	CFW500A04P3B2DB66DSG2		25	JHL25 JHL25-1	JHL20 (JHL20-1)	JM60030-2CR	JM60030-3CR
14938005	CFW500A07P3B2DB66DSG2		40	JHL40 (JHL40-1)	JHL20 (JHL20-1)	JM60060-2CR	JM60030-3CR
14938047	CFW500A10P0B2DB66DSG2		60	JHL60 (JHL60-1)	JHL25 JHL25-1	JM60060-2CR	JM60030-3CR
14938113	CFW500A16P0T2DB66DSG2	3-phase / 230VAC	40	-	JHL40 (JHL40-1)	-	JM60060-3CR
14975838	CFW500B24P0T2DB66DSG2		60		JHL60 (JHL60-1)		JM60060-3CR
14938655	CFW500B28P0T2DB66DSG2		60		JHL60 (JHL60-1)		JM60060-3CR
14991953	CFW500A01P0T4DB66DSG2	3-phase / 480VAC	20	-	JHL20 (JHL20-1)	-	JM60030-3CR
14992148	CFW500A01P6T4DB66DSG2		20		JHL20 (JHL20-1)		JM60030-3CR
14976517	CFW500A02P6T4DB66DSG2		20		JHL20 (JHL20-1)		JM60030-3CR
14976809	CFW500A04P3T4DB66DSG2		20		JHL20 (JHL20-1)		JM60030-3CR
14977065	CFW500A06P5T4DB66DSG2		20		JHL20 (JHL20-1)		JM60030-3CR
14977266	CFW500A10P0T4DB66DSG2		25		JHL25 JHL25-1		JM60030-3CR
14977397	CFW500B14P0T4DB66DSG2		35		JHL35 (JHL35-1)		JM60060-3CR
14977556	CFW500B16P0T4DB66DSG2		35		JHL35 (JHL35-1)		JM60060-3CR
14978365	CFW500B24P0T4DB66DSG2		60		JHL60 (JHL60-1)		JM60060-3CR
14978573	CFW500B31P0T4DB66DSG2		60		JHL60 (JHL60-1)		JM60060-3CR
14989840	CFW500A01P6B2DB66G2	1-phase or 3-phase / 230VAC	20	JHL20 (JHL20-1)	JHL20 (JHL20-1)	JM60030-2CR	JM60030-3CR
14990985	CFW500A02P6B2DB66G2		20	JHL20 (JHL20-1)	JHL20 (JHL20-1)	JM60030-2CR	JM60030-3CR
14991517	CFW500A04P3B2DB66G2		25	JHL25 JHL25-1	JHL20 (JHL20-1)	JM60030-2CR	JM60030-3CR
14937890	CF W500A07P3B2DB66G2		40	JHL40 (JHL40-1)	JHL20 (JHL20-1)	JM60060-2CR	JM60030-3CR
14938041	CFW500A10P0B2DB66G2		60	JHL60 (JHL60-1)	JHL25 JHL25-1	JM60060-2CR	JM60030-3CR
14938111	CFW500A16P0T2DB66G2	3-phase / 230VAC	40	-	JHL40 (JHL40-1)	-	JM60060-3CR
14975783	CFW500B24P0T2DB66G2		60		JHL60 (JHL60-1)		JM60060-3CR
14938547	CFW500B28P0T2DB66G2		60		JHL60 (JHL60-1)		JM60060-3CR
14991899	CFW500A01P0T4DB66G2	3-phase / 480VAC	20	-	JHL20 (JHL20-1)	-	JM60030-3CR
14992113	CFW500A01P6T4DB66G2		20		JHL20 (JHL20-1)		JM60030-3CR
14975888	CFW500A02P6T4DB66G2		20		JHL20 (JHL20-1)		JM60030-3CR
14976683	CFW500A04P3T4DB66G2		20		JHL20 (JHL20-1)		JM60030-3CR
14976814	CFW500A06P5T4DB66G2		20		JHL20 (JHL20-1)		JM60030-3CR
14977261	CFW500A10P0T4DB66G2		25		JHL25 JHL25-1		JM60030-3CR
14977391	CFW500B14P0T4DB66G2		35		JHL35 (JHL35-1)		JM60060-3CR
14977552	CFW500B16P0T4DB66G2		35		JHL35 (JHL35-1)		JM60060-3CR
14977629	CFW500B24P0T4DB66G2		60		JHL60 (JHL60-1)		JM60060-3CR
14978548	CFW500B31P0T4DB66G2		60		JHL60 (JHL60-1)		JM60060-3CR

1 - Per UL standard

2 - Non UL standard





# CFW500 Compatible Accessories

## Fuses and Circuit Breakers, *continued*

WEG CFW500 AC Drive Circuit Breaker Component Selection							
WEG MAT #	Model #	Input Voltage	Max Current (A)	WEG Circuit Breaker	WEG Current Limiter	WEG Power Terminal Block	WEG Short Circuit Alarm Contact
IP20 Drives							
<a href="#">15570800</a>	CFW500A01P6B2NB20G2	1-phase / 3-phase 230VAC IP20	16	<a href="#">MPW40-3-D063</a> / <a href="#">MPW40-3-D025</a>	<a href="#">CLT32MPW40</a>	<a href="#">LST25</a>	<a href="#">TSB</a>
<a href="#">15571879</a>	CFW500A02P6B2NB20G2		16	<a href="#">MPW40-3-U010</a> / <a href="#">MPW40-3-U004</a>			
<a href="#">15571881</a>	CFW500A04P3B2NB20G2		16	<a href="#">MPW40-3-U016</a> / <a href="#">MPW40-3-D063</a>			
<a href="#">15574655</a>	CFW500B07P3B2DB20G2		25	<a href="#">MPW40-3-U025</a> / <a href="#">MPW40-3-U016</a>			
<a href="#">15575067</a>	CFW500B10P0B2DB20G2		25	<a href="#">MPW40-3-U032</a> / <a href="#">MPW40-3-U016</a>			
<a href="#">15572625</a>	CFW500A07P0T2NB20G2	3-phase 230VAC IP20	16	<a href="#">MPW40-3-U010</a>	Any UL Listed CB	N/A	
<a href="#">15572689</a>	CFW500A09P6T2NB20G2		16	<a href="#">MPW40-3-U016</a>			
<a href="#">15575202</a>	CFW500B16P0T2DB20G2		25	<a href="#">MPW40-3-U025</a>			
<a href="#">15575701</a>	CFW500C24P0T2DB20G2		32	<a href="#">MPW40-3-U032</a>			
<a href="#">15575716</a>	CFW500D28P0T2DB20G2		125				
<a href="#">15576540</a>	CFW500D47P0T2DB20G2		125				
<a href="#">15577077</a>	CFW500E56P0T2DB20G2		125				
<a href="#">15342437</a>	CFW500F77P0T2DB20G2		225				
<a href="#">15342760</a>	CFW500F88P0T2DB20G2	225					
<a href="#">15342909</a>	CFW500F105T2DB20G2	225					
<a href="#">15572819</a>	CFW500A01P0T4NB20G2	3-phase 460VAC IP20	16	<a href="#">MPW40-3-D016</a>	<a href="#">CLT32MPW40</a>	<a href="#">LST25</a>	<a href="#">TSB</a>
<a href="#">15572908</a>	CFW500A01P6T4NB20G2		16	<a href="#">MPW40-3-D025</a>			
<a href="#">15573714</a>	CFW500A02P6T4NB20G2		16	<a href="#">MPW40-3-U004</a>			
<a href="#">15573819</a>	CFW500A04P3T4NB20G2		16	<a href="#">MPW40-3-D063</a>			
<a href="#">15573823</a>	CFW500A06P1T4NB20G2		16	<a href="#">MPW40-3-U010</a>			
<a href="#">15575568</a>	CFW500B02P6T4DB20G2		25	<a href="#">MPW40-3-U004</a>			
<a href="#">15575577</a>	CFW500B04P3T4DB20G2		25	<a href="#">MPW40-3-D063</a>			
<a href="#">15575665</a>	CFW500B06P5T4DB20G2		25	<a href="#">MPW40-3-U010</a>			
<a href="#">15575699</a>	CFW500B10P0T4DB20G2		25	<a href="#">MPW40-3-U016</a>			
<a href="#">15575707</a>	CFW500C14P0T4DB20G2		32	<a href="#">MPW40-3-U020</a>			
<a href="#">15575711</a>	CFW500C16P0T4DB20G2		32	<a href="#">MPW40-3-U032</a>			
<a href="#">15576919</a>	CFW500D24P0T4DB20G2		40	Any UL Listed CB		N/A	
<a href="#">15577021</a>	CFW500D31P0T4DB20G2		50				
<a href="#">15577211</a>	CFW500E39P0T4DB20G2		50				
<a href="#">15577452</a>	CFW500E49P0T4DB20G2		65				
<a href="#">15733937</a>	CFW500F77P0T4DB20G2		100				
<a href="#">15734064</a>	CFW500F88P0T4DB20G2		100				
<a href="#">15734119</a>	CFW500F0105T4DB20G2		125				
<a href="#">15448371</a>	CFW500G0142T4DB20G2		175				
<a href="#">15448372</a>	CFW500G0180T4DB20G2		225				
<a href="#">15448373</a>	CFW500G0211T4DB20G2		250				

Table continued on next page

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# CFW500 Compatible Accessories

## Fuses and Circuit Breakers, *continued*

WEG CFW500 AC Drive Circuit Breaker Component Selection, <i>continued</i>							
WEG MAT #	Model #	Input Voltage	Max Current (A)	WEG Circuit Breaker	WEG Current Limiter	WEG Power Terminal Block	WEG Short Circuit Alarm Contact
Table continued from previous page							
IP66 Drives							
<a href="#">14990863</a>	CFW500A01P6B2DB66DSG2	1-phase / 3-phase 230VAC IP66	16	<a href="#">MPW40-3-U025</a> / <a href="#">MPW40-3-U016</a>	<a href="#">CLT32MPW40</a>	<a href="#">LST25</a>	<a href="#">TSB</a>
<a href="#">14991103</a>	CFW500A02P6B2DB66DSG2		16				
<a href="#">14991753</a>	CFW500A04P3B2DB66DSG2		16				
<a href="#">14938005</a>	CFW500A07P3B2DB66DSG2		25	<a href="#">MPW40-3-U025</a> / <a href="#">MPW40-3-U016</a>			
<a href="#">14938047</a>	CFW500A10P0B2DB66DSG2		25	<a href="#">MPW40-3-U032</a> / <a href="#">MPW40-3-U016</a>			
<a href="#">14938113</a>	CFW500A16P0T2DB66DSG2	3-phase 230VAC IP66	25.0	<a href="#">MPW40-3-U025</a>			
<a href="#">14975838</a>	CFW500B24P0T2DB66DSG2		32.0	<a href="#">MPW40-3-U032</a>			
<a href="#">14938655</a>	CFW500B28P0T2DB66DSG2		125.0	Any UL Listed CB	<a href="#">N/A</a>		
<a href="#">14991953</a>	CFW500A01P0T4DB66DSG2	3-phase 460VAC IP66	16.0	<a href="#">MPW40-3-U016</a>	<a href="#">CLT32MPW40</a>	<a href="#">LST25</a>	<a href="#">TSB</a>
<a href="#">14992148</a>	CFW500A01P6T4DB66DSG2		16.0				
<a href="#">14976517</a>	CFW500A02P6T4DB66DSG2		25.0				
<a href="#">14976809</a>	CFW500A04P3T4DB66DSG2		25.0				
<a href="#">14977065</a>	CFW500A06P5T4DB66DSG2		25.0	<a href="#">MPW40-3-U025</a>			
<a href="#">14977266</a>	CFW500A10P0T4DB66DSG2		25.0				
<a href="#">14977397</a>	CFW500B14P0T4DB66DSG2		32.0		<a href="#">MPW40-3-U032</a>		
<a href="#">14977556</a>	CFW500B16P0T4DB66DSG2		32.0	<a href="#">MPW40-3-U032</a>			
<a href="#">14978365</a>	CFW500B24P0T4DB66DSG2		125.0	Any UL Listed CB	<a href="#">N/A</a>		
<a href="#">14978573</a>	CFW500B31P0T4DB66DSG2		125.0				
<a href="#">14989840</a>	CFW500A01P6B2DB66G2	1-phase / 3-phase 230VAC IP66	16	<a href="#">MPW40-3-U025</a> / <a href="#">MPW40-3-U016</a>	<a href="#">CLT32MPW40</a>	<a href="#">LST25</a>	<a href="#">TSB</a>
<a href="#">14990985</a>	CFW500A02P6B2DB66G2		16				
<a href="#">14991517</a>	CFW500A04P3B2DB66G2		16				
<a href="#">14937890</a>	CFW500A07P3B2DB66G2		25	<a href="#">MPW40-3-U025</a> / <a href="#">MPW40-3-U016</a>			
<a href="#">14938041</a>	CFW500A10P0B2DB66G2		25	<a href="#">MPW40-3-U032</a> / <a href="#">MPW40-3-U016</a>			
<a href="#">14938111</a>	CFW500A16P0T2DB66G2	3-phase 230VAC IP66	25.0	<a href="#">MPW40-3-U025</a>	<a href="#">CLT32MPW40</a>	<a href="#">LST25</a>	<a href="#">TSB</a>
<a href="#">14975783</a>	CFW500B24P0T2DB66G2		32.0	<a href="#">MPW40-3-U032</a>			
<a href="#">14938547</a>	CFW500B28P0T2DB66G2		125.0	Any UL Listed CB			
<a href="#">14991899</a>	CFW500A01P0T4DB66G2	3-phase 460VAC IP66	16.0	<a href="#">MPW40-3-U016</a>	<a href="#">CLT32MPW40</a>	<a href="#">LST25</a>	<a href="#">TSB</a>
<a href="#">14992113</a>	CFW500A01P6T4DB66G2		16.0				
<a href="#">14975888</a>	CFW500A02P6T4DB66G2		25.0				
<a href="#">14976683</a>	CFW500A04P3T4DB66G2		25.0				
<a href="#">14976814</a>	CFW500A06P5T4DB66G2		25.0	<a href="#">MPW40-3-U025</a>			
<a href="#">14977261</a>	CFW500A10P0T4DB66G2		25.0				
<a href="#">14977391</a>	CFW500B14P0T4DB66G2		32.0				
<a href="#">14977552</a>	CFW500B16P0T4DB66G2		32.0				
<a href="#">14977629</a>	CFW500B24P0T4DB66G2		125.0	Any UL Listed CB	<a href="#">N/A</a>		
<a href="#">14978548</a>	CFW500B31P0T4DB66G2		125.0				



# CFW500 Compatible Accessories

## Braking Resistors for WEG CFW500 AC Drives

Dynamic braking absorbs the motor regeneration energy when the motor is decelerated faster than it would if it was allowed to coast to a stop. The regeneration energy is dissipated by braking resistors. All drives have the braking function built-in and do not require a separate dynamic braking unit. The recommended open type or NEMA 1 type brake resistors available at AutomationDirect for each drive model are listed in the table below.

WEG CFW500 AC Drive Braking Component Selection																					
Drive Voltage	WEG MAT #	Drive Model (CFW500xxxG2)	Drive Ratings				Drive Brake Capacity - Max Torque			125% Braking Torque @ 10% Duty Cycle*											
			IP**	Input Voltage Phases	Drive Rated Amps (A)	Motor Power (hp)	Resistor (Ω)	Max Current (A)	Peak Power (kW)	Open Type Braking Resistor			NEMA1 Resistors with Thermal Switch								
										Part #	Qty.	Total Brake Current (A)	Part #	Qty.	Total Brake Current (A)						
230V	<a href="#">15570800</a>	A01P6B2NB20		1/3	1.6	0.25	No Dynamic Braking (These Models)														
	<a href="#">15572819</a>	A01P0T4NB20		3	1																
	<a href="#">14990863</a>	A01P6B2DB66DS	IP66D	1/3	1.6		127	6	4.6	<a href="#">GS-BR-400W150</a>	1	2.6	<a href="#">BR-N1-240W150</a>	1	2.6						
	<a href="#">14989840</a>	A01P6B2DB66	IP66		1						1										
	<a href="#">14991103</a>	A02P6B2DB66DS	IP66D		1						1										
	<a href="#">14990985</a>	A02P6B2DB66	IP66		1						1										
	<a href="#">15571879</a>	A02P6B2NB20			0.5	No Dynamic Braking (These Models)															
	<a href="#">15572908</a>	A01P6T4NB20		3	1.6	0.75															
	<a href="#">14991753</a>	A04P3B2DB66DS	IP66D	1/3	4.3	1	127	6	4.6	<a href="#">GS-BR-400W150</a>	1	2.6	<a href="#">BR-N1-240W150</a>	1	2.6						
	<a href="#">14991517</a>	A04P3B2DB66	IP66				1	1	No Dynamic Braking (These Models)												
	<a href="#">15571881</a>	A04P3B2NB20																			
	<a href="#">15574655</a>	B07P3B2DB20	IP20		7.3	2	39	10	3.9	<a href="#">GS-BR-400W040</a>	1	9.8	<a href="#">BR-N1-280W50</a>	1	7.8						
	<a href="#">14938005</a>	A07P3B2DB66DS	IP66D								1			1							
	<a href="#">14937890</a>	A07P3B2DB66	IP66								1			1							
	<a href="#">15572625</a>	A07P0T2NB20			7	No Dynamic Braking (These Models)															
	<a href="#">15575067</a>	B10P0B2DB20	IP20		10	3	27	15	6.1	<a href="#">GS-BR-400W040</a>	1	9.8	<a href="#">BR-N1-280W50</a>	1	7.8						
	<a href="#">14938047</a>	A10P0B2DB66DS	IP66D								1			1							
	<a href="#">14938041</a>	A10P0B2DB66	IP66								1			1							
	<a href="#">15572689</a>	A09P6T2NB20		9.6	No Dynamic Braking (These Models)																
	<a href="#">15575202</a>	B16P0T2DB20	IP20	16	5	20	20	8	<a href="#">GS-BR-400W040</a>	1	9.8	<a href="#">BR-N1-800W25</a>	1	15.6							
	<a href="#">14938113</a>	A16P0T2DB66DS	IP66D							1			1								
	<a href="#">14938111</a>	A16P0T2DB66	IP66							1			1								
	<a href="#">15575701</a>	C24P0T2DB20	IP20	24	7.5	15	26	10.1	<a href="#">GS-BR-1K0W020</a>	1	19.5	<a href="#">BR-N1-800W18P0</a>	1	21.7							
	<a href="#">14975838</a>	B24P0T2DB66DS	IP66D							3							1	1			
	<a href="#">14975783</a>	B24P0T2DB66	IP66														1	1			
	<a href="#">15575716</a>	D28P0T2DB20	IP20	28	10	10	38	14.4	<a href="#">GS-BR-1K5W013</a>	1	30.0	<a href="#">BR-N1-1K5W14P0</a>	1	27.9							
	<a href="#">14938655</a>	B28P0T2DB66DS	IP66D							1			1								
	<a href="#">14938547</a>	B28P0T2DB66	IP66							1			1								
	<a href="#">15576540</a>	D47P0T2DB20	IP20	47	15	8.6	45	17.4	<a href="#">GS-BR-1K5W013</a>	1	30.0	<a href="#">BR-N1-2K2W08P6</a>	1	45.3							
	<a href="#">15577077</a>	E56P0T2DB20	IP20	56	20	4.7	95	42.4		1			1								
	<a href="#">15342437</a>	F77P0T2DB20	IP20	77		6	66.7	26.7		<a href="#">GS-BR-1K5W3P3</a>			2S		59.1	<a href="#">BR-N1-2K2W06P8</a>	1	57.4			
	<a href="#">15342760</a>	F88P0T2DB20	IP20	88	25				2S		1										
	<a href="#">15342909</a>	F0105T2DB20	IP20	105	30	3	133	53.1	2S			<a href="#">BR-N1-3K6W06P8</a>	1	114.7							



# CFW500 Compatible Accessories

## Braking Resistors for WEG CFW500 AC Drives, continued

WEG CFW500 AC Drive Braking Component Selection																	
Drive Voltage	WEG MAT#	Drive Model (CFW500xxxG2)	Drive Ratings				Drive Brake Capacity - Max Torque			125% Braking Torque @ 10% Duty Cycle*							
			IP**	Input Voltage Phases	Drive Rated Amps (A)	Motor Power (hp)	Resistor (Ω)	Max Current (A)	Peak Power (kW)	Open Type Braking Resistor			NEMA1 Resistors with Thermal Switch				
										Part #	Qty.	Total Brake Current (A)	Part #	Qty.	Total Brake Current (A)		
Table continued from previous page																	
460V	<a href="#">14992148</a>	A01P6T4DB66DS	IP66D	3	1.6	0.25	127	6	4.6	<a href="#">GS-BR-400W150</a>	1	5.3	<a href="#">BR-N1-240W150</a>	1	5.3		
	<a href="#">14992113</a>	A01P6T4DB66	IP66		1	0.33					1			1		1	
	<a href="#">14991953</a>	A01P0T4DB66DS	IP66D								1			1		1	
	<a href="#">14991899</a>	A01P0T4DB66	IP66														
	<a href="#">15573714</a>	A02P6T4NB20		2.6	1	No Dynamic Braking (These Models)											
	<a href="#">15575568</a>	B02P6T4DB20	IP20			<a href="#">GS-BR-400W150</a>	1	5.3	<a href="#">BR-N1-240W150</a>	1	5.3						
	<a href="#">14976517</a>	A02P6T4DB66DS	IP66D				1			1							
	<a href="#">14975888</a>	A02P6T4DB66	IP66				1			1							
	<a href="#">15573819</a>	A04P3T4NB20		4.3	2	No Dynamic Braking (These Models)											
	<a href="#">15575577</a>	B04P3T4DB20	IP20			<a href="#">GS-BR-400W150</a>	1	5.3	<a href="#">BR-N1-240W150</a>	1	5.3						
	<a href="#">14976809</a>	A04P3T4DB66DS	IP66D				1			1							
	<a href="#">14976683</a>	A04P3T4DB66	IP66				1			1							
	<a href="#">15573823</a>	A06P1T4NB20	–	6.1	3	No Dynamic Braking (These Models)											
	<a href="#">15575665</a>	B06P5T4DB20	IP20	6.5		100	8	6.4	<a href="#">GS-BR-300W250</a>	2P	6.3	<a href="#">BR-N1-500W200</a>	1	4.0			
	<a href="#">14977065</a>	A06P5T4DB66DS	IP66D							2P			1				
	<a href="#">14976814</a>	A06P5T4DB66	IP66							2P			1				
	<a href="#">15575699</a>	B10P0T4DB20	IP20	10	5	47	16	12	<a href="#">GS-BR-1K0W075</a>	1	10.5	<a href="#">BR-N1-720W85</a>	1	9.3			
	<a href="#">14977266</a>	A10P0T4DB66DS	IP66D							1			1				
	<a href="#">14977261</a>	A10P0T4DB66	IP66							1			1				
	<a href="#">15575707</a>	C14P0T4DB20	IP20	14	7.5	33	24	19	<a href="#">GS-BR-1K5W043</a>	1	18.4	<a href="#">BR-N1-720W85</a>	1	9.3			
	<a href="#">14977397</a>	B14P0T4DB66DS	IP66D		10					1			1				
	<a href="#">14977391</a>	B14P0T4DB66	IP66							1			1				
	<a href="#">16675711</a>	C16P0T4DB20	IP20	16	10	33	24	19		1			18.4		<a href="#">BR-N1-1K2W50</a>	1	15.8
	<a href="#">14977556</a>	B16P0T4DB66DS	IP66D						1	1							
	<a href="#">14977552</a>	B16P0T4DB66	IP66						1	1							
	<a href="#">15576919</a>	D24P0T4DB20	IP20	24	15	22	34	25.4	2P	39.5	<a href="#">BR-N1-1K5W40</a>	1	19.8				
	<a href="#">14978365</a>	B24P0T4DB66DS	IP66D						2P			1					
	<a href="#">14977629</a>	B24P0T4DB66	IP66						2P			1					
	<a href="#">15577021</a>	D31P0T4DB20	IP20	31	20	18	48	41.5	2S2P	60.8	<a href="#">BR-N1-1K7W30</a>	1	26.3				
	<a href="#">14978573</a>	B31P0T4DB66DS	IP66D						2S2P			1					
	<a href="#">14978548</a>	B31P0T4DB66	IP66						2S2P			1					
	<a href="#">15577211</a>	E39P0T4DB20	IP20	2S2P	1												
	<a href="#">15577452</a>	E49P0T4DB20	IP20	49	30	8.6	78	52.3	2S2P	65.8	<a href="#">BR-N1-2K3W26</a>	1	30.4				
	<a href="#">15733937</a>	F77P0T4DB20	IP20	77	40	12	66.7	53.4	2S2P			1		<a href="#">BR-N1-3K6W20</a>	1	39.5	
	<a href="#">15734064</a>	F88P0T4DB20	IP20	88	50	12	66.7	53.4	2S2P			1			<a href="#">BR-N1-4K7W14P7</a>		1
	<a href="#">15734119</a>	F0105T4DB20	IP20	105	60	6.2	129	103.2	<a href="#">GS-BR-1K5W013GS-BR-1K5W013</a>	60.8	<a href="#">BR-N1-6K9W13P6</a>	1	58.1				
	<a href="#">15448371</a>	G0142T4DB20	IP20	142	75	3	267	208				Not offered		65.8	<a href="#">BR-N1-6K5W06P4</a>	1	123.4
	<a href="#">15448372</a>	G0180T4DB20	IP20	180	100	3	267	208								<a href="#">BR-N1-10K8W04P3</a>	
	<a href="#">15448373</a>	G0211T4DB20	IP20	211	150	2.2	364	284	<a href="#">BR-N1-18K0W03P7</a>	1	213.5						
	* 10% Duty Cycle with maximum ON (braking) time for 10 seconds.																
	** IP66D stands for IP66 with disconnect.																
	Note: Where noted in resistor quantity, S= series and P= parallel																

\* 10% Duty Cycle with maximum ON (braking) time for 10 seconds.

\*\* IP66D stands for IP66 with disconnect.

Note: Where noted in resistor quantity, S = series and P = parallel

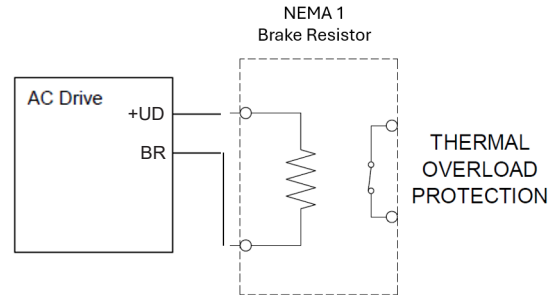
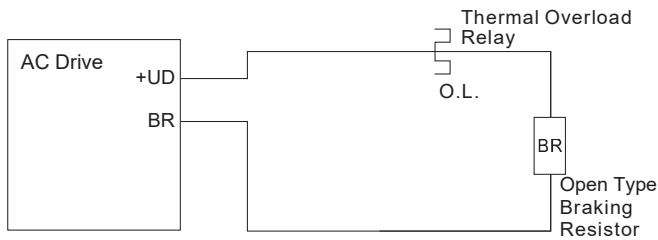


# CFW500 Compatible Accessories

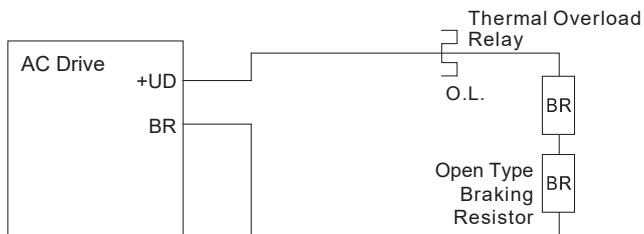
## Brake Wiring

Use your drive's braking component selection table to determine the appropriate brake resistor model and configuration for your drive. Refer to the diagrams below for examples on how to wire each possible configuration.

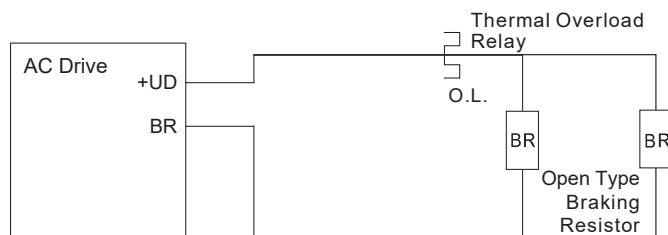
### Drive + 1 Resistor or NEMA1 Resistor:



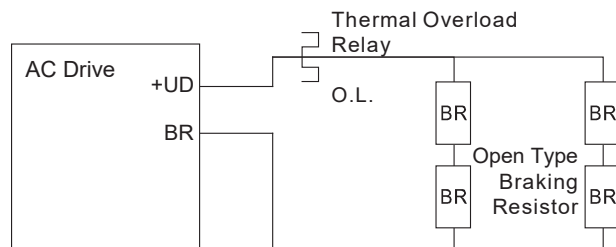
### Drive + 2 Series Resistors:



### Drive + 2 Parallel Resistors:



### Drive + 2 Series and 2 Parallel Resistors:





# CFW500 Compatible Accessories

## Line Reactors/Voltage Time Filters

Installing an AC Line Reactor on the input side of an AC motor drive can increase line impedance, improve the power factor, reduce input current, increase system capacity, and reduce interference generated from the motor drive.

Installing a load reactor or voltage time filter on the drive's output side can increase the high-frequency impedance to reduce the dV/dT and terminal voltage to protect the motor. Use output filters if the motor cable length exceeds 100ft [30m].

WEG CFW500 Line/Load Reactor and AC Output Filter									
WEG MAT #	Model #	Input Voltage (VAC)	Motor HP	Drive Output		Line Reactor*		Load Reactor*	Output Filter*
				Rated Current	Phase / Nominal	1-phase	3-phase	3-phase	3-phase
IP20 Drives									
<a href="#">15570800</a>	CFW500A01P6B2NB20G2	1-phase or 3-phase / 230VAC	0.25	1.6	3-phase / 230VAC	<a href="#">LR2-20P2-1PH</a>	<a href="#">LR2-20P2</a>	<a href="#">LR2-20P2</a>	N/A
<a href="#">15571879</a>	CFW500A02P6B2NB20G2		0.5	2.6		<a href="#">LR2-20P5-1PH or LR2-20P5</a>	<a href="#">LR2-20P5 or LR2-20P2</a>	<a href="#">LR2-20P5 or LR2-20P2</a>	VTF-246-CFG
<a href="#">15571881</a>	CFW500A04P3B2NB20G2		1	4.3		<a href="#">LR2-21P0-1PH or LR2-20P7</a>	<a href="#">LR2-21P0 or LR2-20P5</a>	<a href="#">LR2-21P0 or LR2-20P5</a>	VTF-24-FH
<a href="#">15574655</a>	CFW500B07P3B2DB20G2		2	7.3		<a href="#">LR-22P0-1PH or LR-25P0</a>	<a href="#">LR2-22P0 or LR2-20P7</a>	<a href="#">LR2-22P0 or LR2-20P7</a>	VTF-246-GJJ
<a href="#">15575067</a>	CFW500B10P0B2DB20G2		3	10		<a href="#">LR-23P0-1PH or LR-25P0</a>	<a href="#">LR-23P0 or LR2-22P0</a>	<a href="#">LR-23P0 or LR2-22P0</a>	VTF-246-HKL
<a href="#">15572625</a>	CFW500A07P0T2NB20G2	3-phase / 230VAC	2	7	3-phase / 230VAC	N/A	<a href="#">LR2-22P0 or LR2-20P7</a>	<a href="#">LR2-22P0 or LR2-20P7</a>	VTF-246-GJJ
<a href="#">15572689</a>	CFW500A09P6T2NB20G2		3	9.6			<a href="#">LR-23P0 or LR2-22P0</a>	<a href="#">LR-23P0 or LR2-22P0</a>	VTF-246-HKL
<a href="#">15575202</a>	CFW500B16P0T2DB20G2		5	16			<a href="#">LR-25P0</a>	<a href="#">LR-25P0</a>	VTF-24-JL
<a href="#">15575701</a>	CFW500C24P0T2DB20G2		7.5	24			<a href="#">LR-27P5</a>	<a href="#">LR-27P5</a>	VTF-246-KMN
<a href="#">15575716</a>	CFW500D28P0T2DB20G2		10	28			<a href="#">LR-2010</a>	<a href="#">LR-2010</a>	VTF-246-LPQ
<a href="#">15576540</a>	CFW500D47P0T2DB20G2		15	47			<a href="#">LR-2015</a>	<a href="#">LR-2015</a>	VTF-246-MQR or VTF-246-NRS
<a href="#">15577077</a>	CFW500E56P0T2DB20G2		20	56			<a href="#">LR-2020</a>	<a href="#">LR-2020</a>	VTF-246-NRS or VTF-246-PSU
<a href="#">15342437</a>	CFW500F77P0T2DB20G2		20	64			<a href="#">LR-2025</a>	<a href="#">LR-2025</a>	VTF-246-PSU
<a href="#">15342760</a>	CFW500F88P0T2DB20G2		(25-ND)	(77-ND)			<a href="#">LR-2025</a>	<a href="#">LR-2025</a>	VTF-246-PSU
<a href="#">15342760</a>	CFW500F88P0T2DB20G2		25	75			<a href="#">LR-2025</a>	<a href="#">LR-2025</a>	VTF-246-PSU
<a href="#">15342909</a>	CFW500F0105T2DB20G2		(30-ND)	(88-ND)			<a href="#">LR-2030</a>	<a href="#">LR-2030</a>	VTF-246-RUV
<a href="#">15342909</a>	CFW500F0105T2DB20G2		30	88			<a href="#">LR-2030</a>	<a href="#">LR-2030</a>	VTF-246-RUV
<a href="#">15342909</a>	CFW500F0105T2DB20G2		(40-ND)	(105-ND)			<a href="#">LR-2040</a>	<a href="#">LR-2040</a>	VTF-246-RUV
<a href="#">15572819</a>	CFW500A01P0T4NB20G2	3-phase / 480VAC	0.33	1	3-phase / 480VAC	N/A	<a href="#">LR2-40P3</a>	<a href="#">LR2-40P3</a>	N/A
<a href="#">15572908</a>	CFW500A01P6T4NB20G2		0.75	1.6			<a href="#">LR2-40P7</a>	<a href="#">LR2-40P7</a>	VTF-46-DE
<a href="#">15573714</a>	CFW500A02P6T4NB20G2		1	2.6			<a href="#">LR2-41P0</a>	<a href="#">LR2-41P0</a>	VTF-246-CFG
<a href="#">15573819</a>	CFW500A04P3T4NB20G2		2	4.3			<a href="#">LR2-42P0</a>	<a href="#">LR2-42P0</a>	VTF-24-FH
<a href="#">15573823</a>	CFW500A06P1T4NB20G2		3	6.1			<a href="#">LR2-44P0</a>	<a href="#">LR2-44P0</a>	VTF-246-GJJ
<a href="#">15575568</a>	CFW500B02P6T4DB20G2		1	2.6			<a href="#">LR2-41P0</a>	<a href="#">LR2-41P0</a>	VTF-246-CFG
<a href="#">15575577</a>	CFW500B04P3T4DB20G2		2	4.3			<a href="#">LR2-42P0</a>	<a href="#">LR2-42P0</a>	VTF-24-FH
<a href="#">15575665</a>	CFW500B06P5T4DB20G2		3	6.5			<a href="#">LR2-44P0</a>	<a href="#">LR2-44P0</a>	VTF-246-GJJ
<a href="#">15575699</a>	CFW500B10P0T4DB20G2		5	10			<a href="#">LR2-45P0</a>	<a href="#">LR2-45P0</a>	VTF-246-HKL
<a href="#">15575707</a>	CFW500C14P0T4DB20G2		7.5	14			<a href="#">LR-4010</a>	<a href="#">LR-4010</a>	VTF-24-JL
<a href="#">15575711</a>	CFW500C16P0T4DB20G2		10	14			<a href="#">LR-4010</a>	<a href="#">LR-4010</a>	VTF-24-JL
<a href="#">15576919</a>	CFW500D24P0T4DB20G2		15	24			<a href="#">LR-4015</a>	<a href="#">LR-4015</a>	VTF-246-KMN
<a href="#">15577021</a>	CFW500D31P0T4DB20G2		20	31			<a href="#">LR-4020</a>	<a href="#">LR-4020</a>	VTF-246-LPQ
<a href="#">15577211</a>	CFW500E39P0T4DB20G2		25	39			<a href="#">LR-4025</a>	<a href="#">LR-4025</a>	VTF-246-MQR
<a href="#">15577452</a>	CFW500E49P0T4DB20G2		30	49			<a href="#">LR-4030</a>	<a href="#">LR-4030</a>	VTF-246-NRS
<a href="#">15733937</a>	CFW500F77P0T4DB20G2		40	61			<a href="#">LR-4040</a>	<a href="#">LR-4040</a>	VTF-246-PSU
<a href="#">15733937</a>	CFW500F77P0T4DB20G2		50	(77-ND)			<a href="#">LR-4050</a>	<a href="#">LR-4050</a>	VTF-246-PSU
<a href="#">15734064</a>	CFW500F88P0T4DB20G2		50	73			<a href="#">LR-4050</a>	<a href="#">LR-4050</a>	VTF-246-PSU
<a href="#">15734064</a>	CFW500F88P0T4DB20G2		60	(88 - ND)			<a href="#">LR-4060</a>	<a href="#">LR-4060</a>	VTF-246-RUV
<a href="#">15734119</a>	CFW500F0105T4DB20G2		60	88			<a href="#">LR-4060</a>	<a href="#">LR-4060</a>	VTF-246-RUV
<a href="#">15734119</a>	CFW500F0105T4DB20G2		75	(105 - ND)			<a href="#">LR-4075</a>	<a href="#">LR-4075</a>	VTF-246-RUV
<a href="#">15448371</a>	CFW500G0142T4DB20G2		75	115			<a href="#">LR-4075</a>	<a href="#">LR-4075</a>	VTF-246-RUV
<a href="#">15448371</a>	CFW500G0142T4DB20G2		100	(142-ND)			<a href="#">LR-4075</a>	<a href="#">LR-4075</a>	VTF-246-RUV
<a href="#">15448372</a>	CFW500G0180T4DB20G2		100	142			<a href="#">LR-4100</a>	<a href="#">LR-4100</a>	n/a
<a href="#">15448372</a>	CFW500G0180T4DB20G2		150	(180-ND)			<a href="#">LR-4100</a>	<a href="#">LR-4100</a>	n/a
<a href="#">15448373</a>	CFW500G0211T4DB20G2		150	180			<a href="#">LR-4150</a>	<a href="#">LR-4150</a>	n/a
<a href="#">15448373</a>	CFW500G0211T4DB20G2		175	(211-ND)			<a href="#">LR-4150</a>	<a href="#">LR-4150</a>	n/a
Table continued on next page									

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\* All specs for the LR, LR2, and VTF can be found at [www.automationdirect.com](http://www.automationdirect.com)





# CFW500 Compatible Accessories

## Line Reactors/Voltage Time Filters, *continued*

WEG CFW500 Line/Load Reactor and AC Output Filter, continued									
WEG MAT #	Model #	Input Voltage (VAC)	Motor HP	Drive Output		Line Reactor*		Load Reactor*	Output Filter*
				Rated Current	Phase / Nominal	1-phase	3-phase	3-phase	3-phase
Table continued from previous page									
IP66 Drives									
<a href="#">14990863</a>	CFW500A01P6B2DB66DSG2	1-phase or 3-phase / 230VAC	0.25	1.6	3-phase / 230VAC	<a href="#">LR2-20P2-1PH</a>	<a href="#">LR2-20P2</a>	<a href="#">LR2-20P2</a>	N/A
<a href="#">14991103</a>	CFW500A02P6B2DB66DSG2		0.5	2.6		<a href="#">LR2-20P5-1PH or LR2-20P5</a>	<a href="#">LR2-20P5</a>	<a href="#">LR2-20P5</a>	VTF-246-CFG
<a href="#">14991753</a>	CFW500A04P3B2DB66DSG2		1	4.3		<a href="#">LR2-21P0-1PH or LR2-20P7</a>	<a href="#">LR2-21P0</a>	<a href="#">LR2-21P0</a>	VTF-24-FH
<a href="#">14938005</a>	CFW500A07P3B2DB66DSG2		2	7.3		<a href="#">LR-22P0-1PH or LR-25P0</a>	<a href="#">LR2-22P0</a>	<a href="#">LR2-22P0</a>	VTF-246-GJJ
<a href="#">14938047</a>	CFW500A10P0B2DB66DSG2		3	10		<a href="#">LR-23P0-1PH or LR-25P0</a>	<a href="#">LR-23P0</a>	<a href="#">LR-23P0</a>	VTF-246-HKL
<a href="#">14938113</a>	CFW500A16P0T2DB66DSG2	3-phase / 230VAC	5.0	16	3-phase / 230VAC	N/A	<a href="#">LR-25P0</a>	<a href="#">LR-25P0</a>	VTF-24-JL
<a href="#">14975838</a>	CFW500B24P0T2DB66DSG2		7.5	24			<a href="#">LR-27P5</a>	<a href="#">LR-27P5</a>	VTF-246-KMN
<a href="#">14938655</a>	CFW500B28P0T2DB66DSG2		10.0	28			<a href="#">LR-2010</a>	<a href="#">LR-2010</a>	VTF-246-LPQ
<a href="#">14991953</a>	CFW500A01P0T4DB66DSG2	3-phase / 480VAC	0.3	1	3-phase / 480VAC	N/A	<a href="#">LR2-40P3</a>	<a href="#">LR2-40P3</a>	N/A
<a href="#">14992148</a>	CFW500A01P6T4DB66DSG2		0.5	1.6			<a href="#">LR2-40P5</a>	<a href="#">LR2-40P5</a>	N/A
<a href="#">14976517</a>	CFW500A02P6T4DB66DSG2		1.0	2.6			<a href="#">LR2-41P0</a>	<a href="#">LR2-41P0</a>	VTF-246-CFG
<a href="#">14976809</a>	CFW500A04P3T4DB66DSG2		2.0	4.3			<a href="#">LR2-42P0</a>	<a href="#">LR2-42P0</a>	VTF-246-DGH
<a href="#">14977065</a>	CFW500A06P5T4DB66DSG2		3.0	6.5			<a href="#">LR2-44P0</a>	<a href="#">LR2-44P0</a>	VTF-24-FH
<a href="#">14977266</a>	CFW500A10P0T4DB66DSG2		5.0	10			<a href="#">LR2-45P0</a>	<a href="#">LR2-45P0</a>	VTF-246-GJJ
<a href="#">14977397</a>	CFW500B14P0T4DB66DSG2		7.5	14			<a href="#">LR-4010</a>	<a href="#">LR-4010</a>	VTF-24-JL
<a href="#">14977556</a>	CFW500B16P0T4DB66DSG2		10.0	14			<a href="#">LR-4010</a>	<a href="#">LR-4010</a>	VTF-24-JL
<a href="#">14978365</a>	CFW500B24P0T4DB66DSG2		15.0	24			<a href="#">LR-4015</a>	<a href="#">LR-4015</a>	VTF-246-KMN
<a href="#">14978573</a>	CFW500B31P0T4DB66DSG2		20.0	31			<a href="#">LR-4020</a>	<a href="#">LR-4020</a>	VTF-246-LPQ
<a href="#">14989840</a>	CFW500A01P6B2DB66G2	1-phase or 3-phase / 230VAC	0.25	1.6	3-phase / 230VAC	<a href="#">LR2-20P2-1PH</a>	<a href="#">LR2-20P2</a>	<a href="#">LR2-20P2</a>	N/A
<a href="#">14990985</a>	CFW500A02P6B2DB66G2		0.5	2.6		<a href="#">LR2-20P5-1PH or LR2-20P5</a>	<a href="#">LR2-20P5</a>	<a href="#">LR2-20P5</a>	VTF-246-CFG
<a href="#">14991517</a>	CFW500A04P3B2DB66G2		1	4.3		<a href="#">LR2-21P0-1PH or LR2-20P7</a>	<a href="#">LR2-21P0</a>	<a href="#">LR2-21P0</a>	VTF-24-FH
<a href="#">14937890</a>	CFW500A07P3B2DB66G2		2	7.3		<a href="#">LR-22P0-1PH or LR-25P0</a>	<a href="#">LR2-22P0</a>	<a href="#">LR2-22P0</a>	VTF-246-GJJ
<a href="#">14938041</a>	CFW500A10P0B2DB66G2		3	10		<a href="#">LR-23P0-1PH or LR-25P0</a>	<a href="#">LR-23P0</a>	<a href="#">LR-23P0</a>	VTF-246-HKL
<a href="#">14938111</a>	CFW500A16P0T2DB66G2	3-phase / 230VAC	5.0	16	3-phase / 230VAC	N/A	<a href="#">LR-25P0</a>	<a href="#">LR-25P0</a>	VTF-24-JL
<a href="#">14975783</a>	CFW500B24P0T2DB66G2		7.5	24			<a href="#">LR-27P5</a>	<a href="#">LR-27P5</a>	VTF-246-KMN
<a href="#">14938547</a>	CFW500B28P0T2DB66G2		10.0	28			<a href="#">LR-2010</a>	<a href="#">LR-2010</a>	VTF-246-LPQ
<a href="#">14991899</a>	CFW500A01P0T4DB66G2	3-phase / 480VAC	0.3	1	3-phase / 480VAC	N/A	<a href="#">LR2-40P3</a>	<a href="#">LR2-40P3</a>	N/A
<a href="#">14992113</a>	CFW500A01P6T4DB66G2		0.5	1.6			<a href="#">LR2-40P5</a>	<a href="#">LR2-40P5</a>	N/A
<a href="#">14975888</a>	CFW500A02P6T4DB66G2		1.0	2.6			<a href="#">LR2-41P0</a>	<a href="#">LR2-41P0</a>	VTF-246-CFG
<a href="#">14976683</a>	CFW500A04P3T4DB66G2		2.0	4.3			<a href="#">LR2-42P0</a>	<a href="#">LR2-42P0</a>	VTF-246-DGH
<a href="#">14976814</a>	CFW500A06P5T4DB66G2		3.0	6.5			<a href="#">LR2-44P0</a>	<a href="#">LR2-44P0</a>	VTF-246-GJJ
<a href="#">14977261</a>	CFW500A10P0T4DB66G2		5.0	10			<a href="#">LR2-45P0</a>	<a href="#">LR2-45P0</a>	VTF-246-HKL
<a href="#">14977391</a>	CFW500B14P0T4DB66G2		7.5	14			<a href="#">LR-4010</a>	<a href="#">LR-4010</a>	VTF-24-JL
<a href="#">14977552</a>	CFW500B16P0T4DB66G2		10.0	14			<a href="#">LR-4010</a>	<a href="#">LR-4010</a>	VTF-24-JL
<a href="#">14977629</a>	CFW500B24P0T4DB66G2		15.0	24			<a href="#">LR-4015</a>	<a href="#">LR-4015</a>	VTF-246-KMN
<a href="#">14978548</a>	CFW500B31P0T4DB66G2		20.0	31			<a href="#">LR-4020</a>	<a href="#">LR-4020</a>	VTF-246-LPQ

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# CFW/SSW Series Software

## CFW-WPS Software Package

WEG WPS is the versatile configuration software for all WEG products. The software is compatible with all CFW series AC drives and SSW07/SSW900 soft starters. Powerful features include:

- Configuration and Monitoring Wizards
- Custom Variable Monitoring Windows
- IEC 61131 Ladder Programming
- Advanced Trending & Diagnostics
- FW updates
- Automatic online software updates

And MORE!

WEG WPS requires a PC USB port or RJ45 port and appropriate cables or USB-485M kit. Each drive or softstarter series can connect to the software, through the methods noted below:

### CFW100:

- USB via the CFW100-CUSB module
- RS485 via the CFW100-CRS485 module

### CFW300:

- USB via the CFW300-CUSB module
- RS485 via the CFW300-CRS485 module
- RS232 via the CFW300-CRS232 module

### CFW320:

- USB via the CFW320-CUSB module
- Ethernet via the CFW320-CETH module
- RS485 via the CFW320-CRS485 module
- RS232 via the CFW320-CRS232 module

### CFW500:

- RS485 via the included CFW500-IO module or optional CFW500-CRS485-B module.
- USB via the CFW500-CUSB module
- Ethernet via the CFW500-CETH-IP or CFW500-CEMB-TCP module
- RS232 via the CFW500-CRS232 module

### SSW07:

- RS485 via the SSW07-08-KRS-485 module
- RS232 via the SSW07-08-KRS-232 module

### SSW900:

- USB with integrated USB port.
- Ethernet via the SSW900-CETH-W module
- RS485 via the SSW900-CRS485-W module

See the **WPS quick start videos for more information:**

- Drive Parameters:  
<https://www.automationdirect.com/VID-DR-0071>

- Configuration, Diagnostics, and Wizards:  
<https://www.automationdirect.com/VID-DR-0074>



WEG CFW500 Configuration Software					
Model #	Version	Price	Description	Features/Specifications	CFW500 Drive
<b>CFW-WPS</b>	USB Card	\$10.50	WEG Electric Windows Configuration Software: for all WEG CFW series AC drives and SSW07 and SSW900 series soft starters (PN# CFW-WPS)	USB card containing WEG WPS software.	All
	Download	Free		Download software for free through the AutomationDirect.com website: • <a href="#">CFW-WPS Software</a>	



**CFW-WPS**  
USB Installation Card

# CFW Series Software

## CFW-WLP Software Package

WEG WLP software is only needed for access to the Pump Genius configuration tool. The Pump Genius makes configuring Pumping applications a snap. From single pumps to multi-pump systems, the software walks you through building a pumping application to suit your specific needs. Pump Genius is compatible with CFW500 drives only. Requires a PC USB port and connection options identical to WPS software.

For Download only:

<https://www.automationdirect.com/support/software-downloads?itemcode=WEG%20WLP>

See the "how to" video for more information:

<https://www.automationdirect.com/VID-DR-0335>

