



# CFW320 Series AC Drives – Introduction



## 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 (VVW) 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 (VVW)
- Switching frequency: 2.5, 5, 10, or 15kHz
- Output frequency range: 0–400 Hz; 0.1Hz resolution

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			✓	✓		✓	✓	✓	✓	✓

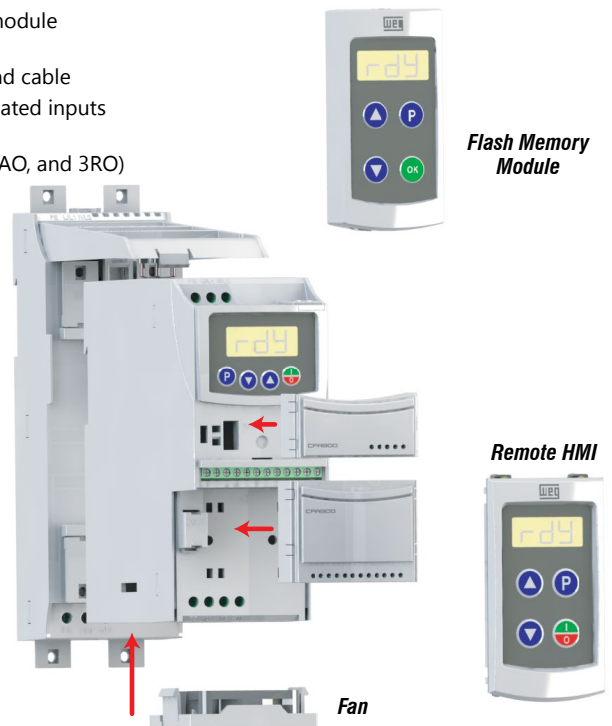
- Overload capacity: 150% for 60sec every 10min; 200% for 3sec every 10min
- Degree of protection: IP20
- Operating temperatures:
  - 120VAC & 230VAC models 32 to 122°F (0 to 50°C); up to 140°F (60°C) with current derating (2% per 1°C above 50°C)
  - 460VAC models 32 to 104°F (0 to 40°C); up to 122°F (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

# WEG 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 (hp)	(kW)	Nominal Phase / Voltage	Rated Current 3) (A)	Nominal Phase / Voltage	Nominal Phase / Voltage	Rated Current (A)	Circuit Breaker (A)	Fuse 4) (A)	Power Loss (W)	Dynamic Braking	Weight	Frame Size	Drawing Link				
<a href="#">CFW320A01P6S1NB20</a>	\$185.00	0.25	0.18	3Ø / 230 VAC	1.6	3Ø / 230 VAC	1Ø / 120 VAC	7.1	10	20	30	No	0.90 kg [1.98 lb]	A	<a href="#">PDF</a>				
<a href="#">CFW320A02P6S1NB20</a>	\$201.00	0.5	0.50		2.6			11.5	16	20	45				<a href="#">PDF</a>				
<a href="#">CFW320A04P2S1NB20</a>	\$215.00	1.0	0.75		4.2			17.7	20	35	60				<a href="#">PDF</a>				
<a href="#">CFW320A06P0S1NB20</a>	\$259.00	1.5	1.32		6.0			26.5	32	40	75				<a href="#">PDF</a>				
<a href="#">CFW320A01P6S2NB20</a>	\$165.00	0.25	0.18		1.6		3.5	6.3	20	30	<a href="#">PDF</a>								
<a href="#">CFW320A02P6S2NB20</a>	\$178.00	0.5	0.50		2.6		5.7	10	20	35	<a href="#">PDF</a>								
<a href="#">CFW320A04P2S2NB20</a>	\$190.00	1.0	0.75		4.2		9.2	16	20	50	<a href="#">PDF</a>								
<a href="#">CFW320A06P0S2NB20</a>	\$236.00	1.5	1.32		6.0		13.2	16	20	75	<a href="#">PDF</a>								
<a href="#">CFW320A07P3S2NB20</a>	\$277.00	2.0	1.50		7.3		16.1	20	25	90	<a href="#">PDF</a>								
<a href="#">CFW320A01P6T2NB20</a>	\$175.00	0.25	0.18		1.6		2.0	2.5	20	30	<a href="#">PDF</a>								
<a href="#">CFW320A02P6T2NB20</a>	\$192.00	0.5	0.50		2.6		3.1	6.3	20	35	<a href="#">PDF</a>								
<a href="#">CFW320A04P2T2NB20</a>	\$204.00	1.0	0.75		4.2		5.0	10	20	50	<a href="#">PDF</a>								
<a href="#">CFW320A06P0T2NB20</a>	\$247.00	1.5	1.32		6.0		7.2	10	20	75	<a href="#">PDF</a>								
<a href="#">CFW320A07P3T2NB20</a>	\$292.00	2.0	1.50		7.3		8.8	16	20	90	<a href="#">PDF</a>								
<a href="#">CFW320B10P0B2DB20</a>	\$331.00	3.0	2.20	3Ø / 230 VAC	10.0	3Ø / 230 VAC	1Ø / 230 VAC	22.0	25	35	100	Yes	1.34 kg [2.95 lb]	B	<a href="#">PDF</a>				
<a href="#">CFW320B15P2T2DB20</a>	\$404.00	5.0	3.70		15.2		3Ø / 230 VAC	18.2							25	35	160	<a href="#">PDF</a>	
<a href="#">CFW320A01P1T4NB20</a>	\$238.00	0.5	0.55		1.1		3Ø / 460 VAC	3Ø / 460 VAC							3Ø / 460 VAC	1.3	1.6	20	26
<a href="#">CFW320A02P6T4NB20</a>	\$247.00	1.0	1.10	2.6	3.1	4			20	42	<a href="#">PDF</a>								
<a href="#">CFW320A03P5T4NB20</a>	\$265.00	2.0	2.20	3.5	4.2	6.3			20	55	<a href="#">PDF</a>								
<a href="#">CFW320A04P8T4NB20</a>	\$326.00	3.0	2.20	4.8	5.8	10			20	69	<a href="#">PDF</a>								
<a href="#">CFW320B01P1T4DB20</a>	\$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>					
<a href="#">CFW320B02P6T4DB20</a>	\$262.00	1.0	1.10	2.6	3.1	4			20	42				<a href="#">PDF</a>					
<a href="#">CFW320B03P5T4DB20</a>	\$289.00	2.0	2.20	3.5	4.2	6.3			20	55				<a href="#">PDF</a>					
<a href="#">CFW320B04P8T4DB20</a>	\$365.00	3.0	2.20	4.8	5.8	10			20	69	<a href="#">PDF</a>								
<a href="#">CFW320B07P6T4DB20</a>	\$436.00	5.0	3.70	7.6	9.1	16			25	111	111	No	1.50 kg [3.30 lb]	C		<a href="#">PDF</a>			
<a href="#">CFW320B07P6T4NB20</a>	\$413.00															<a href="#">PDF</a>			
<a href="#">CFW320C11P0T4DB20</a>	\$493.00	7.5	5.50	11.0	13.2	20			25	164	164	Yes	1.50 kg [3.30 lb]	C		<a href="#">PDF</a>			
<a href="#">CFW320C11P0T4NB20</a>	\$469.00															<a href="#">PDF</a>			
<a href="#">CFW320C14P0T4DB20</a>	\$610.00															<a href="#">PDF</a>			
<a href="#">CFW320C14P0T4NB20</a>	\$580.00	10.0	7.50	14.0	16.8	25			30	172	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 $\leq 0.25\%$ Impedance: 100k $\Omega$ for voltage input; 500 $\Omega$ for current input Programmable functions Maximum input voltage allowed: 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 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/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 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>		$\leq 3\%$ 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-us [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.

# WEG CFW320 AC Drives

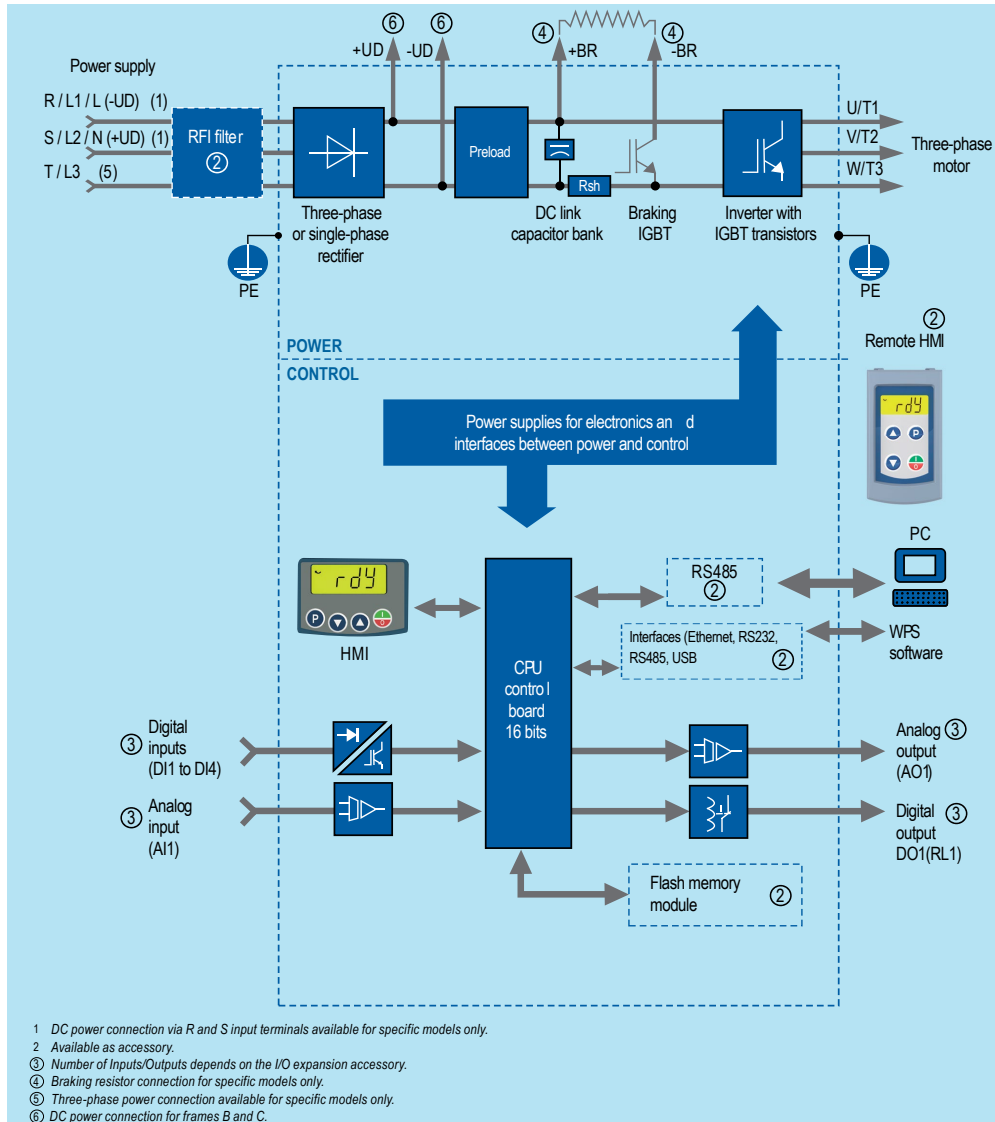
## Part Number Breakdown

### 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



1 DC power connection via R and S input terminals available for specific models only.  
 2 Available as accessory.  
 3 Number of Inputs/Outputs depends on the I/O expansion accessory.  
 4 Braking resistor connection for specific models only.  
 5 Three-phase power connection available for specific models only.  
 6 DC power connection for frames B and C.



# CFW320 AC Drives – Accessories

## WEG CFW320 AC Drives Accessories

Model #	Price	Description	Drawing Link
<b>Accessory Modules</b>			
<a href="#">CFW320-CETH</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="#">PDF</a>
<a href="#">CFW320-CRS232</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="#">PDF</a>
<a href="#">CFW320-CRS485</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="#">PDF</a>
<a href="#">CFW320-CUSB</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="#">PDF</a>
<a href="#">CFW320-IOAENC</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="#">PDF</a>
<a href="#">CFW320-IOAR</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="#">PDF</a>
<a href="#">CFW320-IODF</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="#">PDF</a>
<a href="#">CFW320-IODR</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="#">PDF</a>
<a href="#">CFW320-IOP</a>	\$46.00	WEG Electric CFW320 series speed potentiometer module, enclosed, IP20, plastic housing. For use with WEG CFW320 series AC drives.	<a href="#">PDF</a>
<a href="#">MMF-UDRIVES</a>	\$112.00	WEG Electric CFW320 series flash memory module, for use with WEG CFW320 series AC drives. (1) 3.2ft/1m miniB-USB cable included.	<a href="#">PDF</a>
<b>EMI Input Filters</b>			
<a href="#">CFW320-KFA-S1-S2</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="#">PDF</a>
<a href="#">CFW320-KFA-T2</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="#">PDF</a>
<a href="#">CFW320-KFA-T4</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="#">PDF</a>
<a href="#">CFW320-KFB-S2</a>	\$56.00	WEG Electric EMI input filter, 1-phase, 10A, 35mm DIN rail mount, EMI/RFI filtering. For use with WEG CFW320B1P0B2DB20 AC drive with 1-phase input power only.	<a href="#">PDF</a>
<a href="#">CFW320-KFB-T2</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="#">PDF</a>
<a href="#">CFW320-KFB-T4</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="#">PDF</a>
<a href="#">CFW320-KFC-T4</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="#">PDF</a>
<b>Remote Keypad</b>			
<a href="#">CFW320-KHMIR</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="#">PDF</a>
<b>Cooling Fans</b>			
<a href="#">CFW300-FAN-B-T4</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="#">PDF</a>
<a href="#">CFW300-FAN-A</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="#">PDF</a>
<a href="#">CFW300-FAN-B</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="#">PDF</a>
<a href="#">CFW300-FAN-C</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="#">PDF</a>

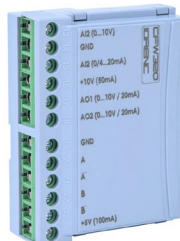
**CFW320-CUSB**



**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>	3Ø 240VAC	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>		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>	3Ø 230VAC	<a href="#">LR2-23P0-1PH</a>	<a href="#">LR2-20P7</a>	<a href="#">VTF-246-GJJ</a>	
<a href="#">CFW320A01P6T2NB20</a>		<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>	3Ø 230VAC	<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>
<a href="#">CFW320B15P2T2DB20</a>		3Ø 230VAC	<a href="#">LR2-23P0</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>	

\*These WEG reactors are not available at AutomationDirect.

# WEG 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.

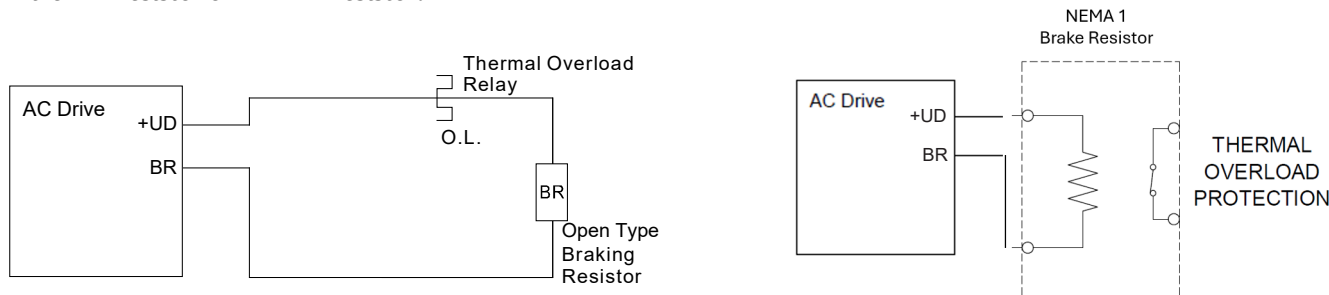
WEG CFW320 AC Drive Braking Component Selection*													
Drive Part #	Drive Ratings				Drive Brake Capacity - Max Torque			Open Type Braking Resistors			NEMA1 Resistors with Thermal Switch		
	Input Voltage Phases	Input Voltage (VAC)	Drive Rated Amps (A)	Motor Power (hp)	Minimum Resistor (Ω)	Max 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				
<a href="#">CFW320B03P5T4DB20</a>			3.5	2					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				

\*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 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-IO5 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
CFW-WPS	USB Card	\$10.50	WEG Electric Windows Configuration Software: for all WEG AC drives (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  
WEG AC Drives tCFW-64