

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													
Determine Motor Voltage and Full-Load Amperage (FLA)													
Motor voltage and FLA are specified on the nameplate of the motor. NOTE: FLA of motors that have been rewound may be higher than stated.													
Determine Motor Overload Requirements													
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. NOTE: Applications that require replacement of existing motor starters with AC drives may require up to 600% overload.													
Determine Application Type: Constant Torque or Variable Torque													
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.													
Installation Altitude													
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]. NOTE: For use above 1000m [3281ft], the AC drive must be derated as described below.													
Derate Output Current Based on Altitude Above 1000 Meters [3281 feet]													
• If the AC drive is installed at an altitude of 0–1000m [3281ft], follow normal operation restrictions. • 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. • Maximum altitude is 4000m [13123ft]. If installation at an altitude higher than 4000m [13123ft] is required, please contact AutomationDirect.													
Derating for Altitude <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.

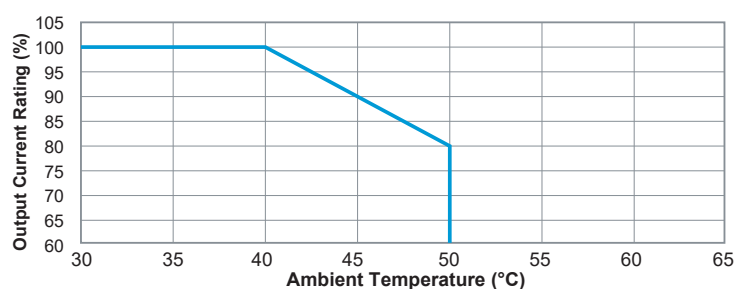
For IP20, Frame A to Frame E (side-by-side mounting), NEMA1 Kit, or IP66 Drives, Derate Output Current Based on Temperature Above 104°F [40°C]

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



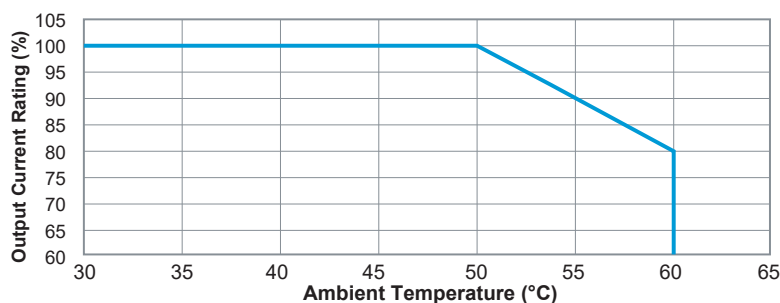
For IP20, Frame A to Frame E (with minimum clearance), Derate Output Current Based on Temperature Above 122°F [50°C]

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

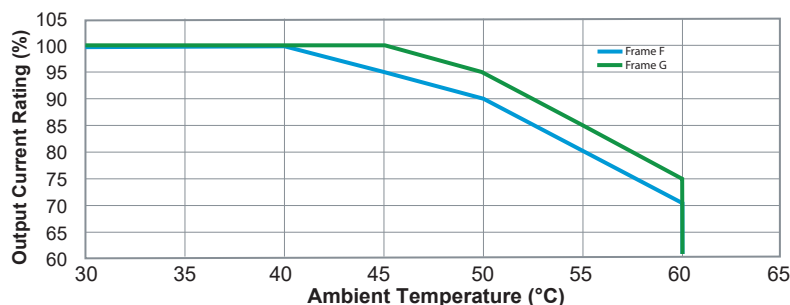
Derating

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				
15570800	CFW500A01P6B2NB20G2	A	1.6 A	1.6 A	1.6 A	1.6 A				
15571879	CFW500A02P6B2NB20G2	A	2.6 A	2.6 A	2.6 A	2.6 A				
15571881	CFW500A04P3B2NB20G2	A	4.3 A	4.3 A	3.5 A	2.8 A				
15572625	CFW500A07P0T2NB20G2	A	7A	7A	5.8 A	4.9 A				
15572689	CFW500A09P6T2NB20G2	A	9.6 A	9.6 A	8A	6.7 A				
15574655	CFW500B07P3B2DB20G2	B	7.3 A	7.3 A	6.1 A	5.1 A				
15575067	CFW500B10P0B2DB20G2	B	10A	10A	8A	6.5 A				
15575202	CFW500B16P0T2DB20G2	B	16A	16A	12.7 A	10.1 A				
15575701	CFW500C24P0T2DB20G2	C	24A	25A	19A	16A				
15575716	CFW500D28P0T2DB20G2	D	28A	28A	22A	18A				
15576540	CFW500D47P0T2DB20G2	D	47A	47A	36A	30A				
15577077	CFW500E56P0T2DB20G2	E	56A	56A	43A	33A				
15572819	CFW500A01P0T4NB20G2	A	1A	1A	1A	1A				
15572908	CFW500A01P6T4NB20G2	A	1.6 A	1.6 A	1.6 A	1.6 A				
15573714	CFW500A02P6T4NB20G2	A	2.6 A	2.6 A	2.6 A	2A				
15573819	CFW500A04P3T4NB20G2	A	4.3 A	4.3 A	2.9 A	2A				
15573823	CFW500A06P1T4NB20G2	A	6.1 A	6.1 A	4.3 A	3.1 A				
15575568	CFW500B02P6T4DB20G2	B	2.6 A	2.6 A	2.6 A	2A				
15575577	CFW500B04P3T4DB20G2	B	4.3 A	4.3 A	2.9 A	2A				
15575665	CFW500B06P5T4DB20G2	B	6.5 A	6.5 A	4.5 A	3.3 A				
15575699	CFW500B10P0T4DB20G2	B	10A	10A	6.5 A	4.3 A				
15575707	CFW500C14P0T4DB20G2	C	14A	14A	10A	7A				
15575711	CFW500C16P0T4DB20G2	C	16A	16A	10A	7A				
15576919	CFW500D24P0T4DB20G2	D	24A	24A	15A	12A				
15577021	CFW500D31P0T4DB20G2	D	31A	31A	16A	13A				
15577211	CFW500E39P0T4DB20G2	E	39A	39A	30A	19A				
15577452	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
15342437	CFW500F77P0T2DB20G2	F	77A	64A	77A	64A	–	–	42.3 A	36.6 A
15342760	CFW500F88P0T2DB20G2	F	88A	75A	88A	75A	–	–	52.6 A	43.7 A
15342909	CFW500F105T2DB20G2	F	105A	88A	88A	73A	–	–	52.6 A	43.7 A
15733937	CFW500F77P0T4DB20G2	F	77A	61A	77A	61A	–	–	42.3 A	36.6 A
15734064	CFW500F88P0T4DB20G2	F	88A	73A	88A	73A	–	–	52.6 A	43.7 A
15734119	CFW500F105T4DB20G2	F	105A	88A	88A	73A	–	–	52.6 A	43.7 A
15448371	CFW500G0142T4DB20G2	G	142A	115A	–	–	111A	90A	–	–
15448372	CFW500G0180T4DB20G2	G	180A	142A	–	–	140A	111A	–	–
15448373	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
14990863	CFW500A01P6B2DB66DSG2	1.6 A	1.6 A	1.6 A	1.6 A
14991103	CFW500A02P6B2DB66DSG2	2.6 A	2.6 A	2.6 A	2.6 A
14991753	CFW500A04P3B2DB66DSG2	4.3 A	4.3 A	3.5 A	2.8 A
14938005	CFW500A07P3B2DB66DSG2	7.3 A	7.3 A	6.1 A	5.1 A
14938047	CFW500A10P0B2DB66DSG2	10A	10A	8A	6.7 A
14938113	CFW500A16P0T2DB66DSG2	16A	16A	12.7 A	10.1 A
14975838 *	CFW500B24P0T2DB66DSG2	24A	24A @ 4.0 kHz	19A	16A
14938655	CFW500B28P0T2DB66DSG2	28A	28A	22A	18A
14991953	CFW500A01P0T4DB66DSG2	1A	1A	1A	1A
14992148	CFW500A01P6T4DB66DSG2	1.6 A	1.6 A	1.6 A	1.6 A
14976517	CFW500A02P6T4DB66DSG2	2.6 A	2.6 A	2.6 A	2A
14976809	CFW500A04P3T4DB66DSG2	4.3 A	4.3 A	2.9 A	2A
14977065	CFW500A06P5T4DB66DSG2	6.5 A	6.5 A	4.5 A	3.3 A
14977266	CFW500A10P0T4DB66DSG2	10A	10A	6.5 A	4.3 A
14977397	CFW500B14P0T4DB66DSG2	14A	14A	10A	7A
14977556	CFW500B16P0T4DB66DSG2	16A	16A	10A	7A
14978365	CFW500B24P0T4DB66DSG2	24A	24A	15A	12A
14978573	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
14989840	CFW500A01P6B2DB66G2	1.6 A	1.6 A	1.6 A	1.6 A
14990985	CFW500A02P6B2DB66G2	2.6 A	2.6 A	2.6 A	2.6 A
14991517	CFW500A04P3B2DB66G2	4.3 A	4.3 A	3.5 A	2.8 A
14937890	CFW500A07P3B2DB66G2	7.3 A	7.3 A	6.1 A	5.1 A
14938041	CFW500A10P0B2DB66G2	10A	10A	8A	6.7 A
14938111	CFW500A16P0T2DB66G2	16A	16A	12.7 A	10.1 A
14975783 *	CFW500B24P0T2DB66G2	24A	24A @ 4.0 kHz	19A	16A
14938547	CFW500B28P0T2DB66G2	28A	28A	22A	18A
14991899	CFW500A01P0T4DB66G2	1A	1A	1A	1A
14992113	CFW500A01P6T4DB66G2	1.6 A	1.6 A	1.6 A	1.6 A
14975888	CFW500A02P6T4DB66G2	2.6 A	2.6 A	2.6 A	2A
14976683	CFW500A04P3T4DB66G2	4.3 A	4.3 A	2.9 A	2A
14976814	CFW500A06P5T4DB66G2	6.5 A	6.5 A	4.5 A	3.3 A
14977261	CFW500A10P0T4DB66G2	10A	10A	6.5 A	4.3 A
14977391	CFW500B14P0T4DB66G2	14A	14A	10A	7A
14977552	CFW500B16P0T4DB66G2	16A	16A	10A	7A
14977629	CFW500B24P0T4DB66G2	24A	24A	15A	12A
14978548	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 1,2		Drive Output		Drive Input		Input Protection		Drive		Dynamic Braking	Drawing Link			
			Maximum Power		Nominal Phase / Voltage	Rated Current ³ (A)	Nominal Phase / Voltage	Nominal Phase / Voltage	Rated Current (A)	Circuit Breaker (A)	Fuse ⁴ (A)	Weight (kg) [lb]			Frame Size		
			(hp)	(kW)													
15570800	CFW500A01P6B2NB20G2	232.00	0.25	0.18	3Ph/ 230VAC	1.6	3Ph/ 230VAC	1Ph or 3Ph/ 230VAC	4.0/2.0 ⁵	5.5/2.5	20	0.8 [1.76]	A	N	PDF		
15571879	CFW500A02P6B2NB20G2	238.00	0.50	0.37		2.6			6.5/3.1 ⁵	9.0/4.0	20	0.8 [1.76]		N	PDF		
15571881	CFW500A04P3B2NB20G2	258.00	1	0.75		4.3			10.5/5.2 ⁵	14/6.3	25/20	0.8 [1.76]		N	PDF		
15574655	CFW500B07P3B2DB20G2	346.00	2	1.50		7.3			17/8.6 ⁵	25/12	40/20	1.2 [2.65]	B	Y	PDF		
15575067	CFW500B10P0B2DB20G2	403.00	3	2.20		10			25/12 ⁵	25/16	60/25	1.2 [2.65]		Y	PDF		
15572625	CFW500A07P0T2NB20G2	321.00	2	1.50		7		3Ph/ 230VAC	3Ph/ 230VAC	3Ph/ 230VAC	8.5 ⁵	10	20	0.8 [1.76]	A	N	PDF
15572689	CFW500A09P6T2NB20G2	394.00	3	2.20		9.6					11.7 ⁵	16	25	0.8 [1.76]		N	PDF
15575202	CFW500B16P0T2DB20G2	430.00	5	3.70		16					19.5 ⁵	25	40	1.2 [2.65]	B	Y	PDF
15575701	CFW500C24P0T2DB20G2	728.00	7.5	5.50		24					29 ⁵	32	60	2.0 [4.4]	C	Y	PDF
15575716	CFW500D28P0T2DB20G2	907.00	10	7.50		28					34.2	40	60	4.3 [9.47]	D	Y	PDF
15576540	CFW500D47P0T2DB20G2	1,484.00	15	11.00		47					57.3	65	60	4.3 [9.47]		Y	PDF
15577077	CFW500E56P0T2DB20G2	1,724.00	20	15.00		56					68.32	80	125	10 [22.05]	E	Y	PDF
15342437	CFW500F77P0T2DB20G2	2,117.00	20 (25-ND)	15 (18.65-ND)		64 (77-ND)					61.44 (73.92-ND)	125	125	26 [57.3]	F	Y	PDF
15342760	CFW500F88P0T2DB20G2	2,652.00	25 (30-ND)	18.65 (22-ND)		75 (88-ND)					72 (84.48-ND)	150	125	26 [57.3]		Y	PDF
15342909	CFW500F0105T2DB20G2	3,596.00	30 (40-ND)	22 (30-ND)		88 (105-ND)		84.48 (100.8-ND)	200	125	26 [57.3]	Y	PDF				

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 ^{1,2}		Nominal Phase / Voltage	Drive Output (HD)		Nominal Phase / Voltage	Drive Input		Input Protection		Drive		Dynamic Braking	Drawing Link
			Maximum Power			Rated Current ³ (A)	Nominal Phase / Voltage		Nominal Phase / Voltage	Rated Current (A)	Circuit Breaker (A)	Fuse ⁴ (A)	Weight (kg) [lb]	Frame Size		
			(hp)	(kW)												
15572819	CFW500A01P0T4NB20G2	297.00	0.33	0.18	3PH/ 480VAC	1	3PH/ 480VAC	3PH/ 480VAC	1.2	1.6 ⁵	20	0.8 [1.76]	A	N	PDF	
15572908	CFW500A01P6T4NB20G2	308.00	0.75	0.37		1.6			1.9	2.5 ⁵	20	0.8 [1.76]		N	PDF	
15573714	CFW500A02P6T4NB20G2	331.00	1	0.75		2.6			3.2	4 ⁵	20	0.8 [1.76]		N	PDF	
15573819	CFW500A04P3T4NB20G2	408.00	2	1.5		4.3			5.2	6.3 ⁵	20	0.8 [1.76]		N	PDF	
15573823	CFW500A06P1T4NB20G2	501.00	3	2.2		6.1			7.4	10 ⁵	20	0.8 [1.76]		N	PDF	
15575568	CFW500B02P6T4DB20G2	361.00	1	0.75		2.6			3.2	4 ⁵	20	1.2 [2.65]	B	Y	PDF	
15575577	CFW500B04P3T4DB20G2	455.00	2	1.5		4.3			5.2	6.3 ⁵	20	1.2 [2.65]		Y	PDF	
15575665	CFW500B06P5T4DB20G2	544.00	3	2.2		6.5			7.8	10 ⁵	20	1.2 [2.65]		Y	PDF	
15575699	CFW500B10P0T4DB20G2	615.00	5	3.7		10			12.0	16 ⁵	25	1.2 [2.65]	Y	PDF		
15575707	CFW500C14P0T4DB20G2	763.00	7.5	5.5		14			17.1	20 ⁵	35	2.0 [4.4]	C	Y	PDF	
15575711	CFW500C16P0T4DB20G2	826.00	10	7.5		16			19.5	25	35	2.0 [4.4]	C	Y	PDF	
15576919	CFW500D24P0T4DB20G2	1,137.00	15	11		24			29.3	40	60	4.3 [9.47]	D	Y	PDF	
15577021	CFW500D31P0T4DB20G2	1,420.00	20	15		31			37.8	50	60	4.3 [9.47]		Y	PDF	
15577211	CFW500E39P0T4DB20G2	1,707.00	25	18.5		39			47.6	50	80	10 [22.05]	E	Y	PDF	
15577452	CFW500E49P0T4DB20G2	2,149.00	30	22		49			59.8	65	100	10 [22.05]		Y	PDF	
15733937	CFW500F77P0T4DB20G2	2,907.00	40	30		60			64.66	80	125	26 [57.3]	F	Y	PDF	
15734064	CFW500F88P0T4DB20G2	3,723.00	50	37		73			77.38	100	125	26 [57.3]		Y	PDF	
15734119	CFW500F0105T4DB20G2	4,539.00	60	45		88			93.28	125	125	26 [57.3]	Y	PDF		
15448371	CFW500G0142T4DB20G2	5,349.00	75	55		115			110.4	175	300	52 [114.64]	G	Y	PDF	
15448372	CFW500G0180T4DB20G2	6,554.00	100	75		142			136.3	225	300	52 [114.64]		Y	PDF	
15448373	CFW500G0211T4DB20G2	7,603.00	150	110		180			172.8	250	300	52 [114.64]		Y	PDF	

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

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)		
Control	Method	V/f (Scalar), VVW (Voltage Vector Control), Vector control with encoder, SVC (Sensorless Vector Control) without encoder, PWM SVM (Space Vector Modulation)
	Output Frequency Range	0–500 Hz; 0.015 Hz resolution
Performance	Speed Control	V/f (Scalar) - Regulation (with slip compensation): 1% of the rated speed - Speed variation range: 1:20
		VVW - Regulation: 1% of the rated speed - Speed variation range: 1:30
		VVW PM - Regulation: 0.1% of the rated speed - Speed variation range: 1:20
		Sensorless - Regulation: 0.5% of the rated speed - Speed variation range: 1:100
		Vector w/ Encoder Regulation 0.1% of the rated speed with a digital reference (keypad, serial, fieldbus, electronic potentiometer, multispeed)
	Torque Control	- Range: 10 to 180%, regulation: $\pm 5\%$ of the rated torque (with encoder) - Range: 20 to 180%, regulation $\pm 10\%$ of the rated torque (sensorless above 3 Hz)
Inputs	Analog	1 insulated input, levels: (0 to 10) V or (0 to 20) mA or (4 to 20) mA - Linearity error $\leq 0.25\%$ - Impedance: 100kΩ for voltage input, 500Ω for current input - Programmable functions - Maximum voltage permitted in the input: 30VDC
	Digital	4 insulated inputs - 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 - Maximum input voltage: 30VDC - Input current: 4.5 mA - Maximum input current: 5.5 mA
Outputs	Analog	1 insulated output, levels: (0 to 10) V or (0 to 20) mA or (4 to 20) mA - Linearity error $\leq 0.25\%$ - Programmable functions $R_L \geq 10k\Omega$ (0 to 10) V or $R_L \leq 500\Omega$ (0 to 20 mA / 4 to 20 mA)
	Relay	1 relay with NA/NF contact - Maximum voltage: 240VAC - Maximum current: 0.5 A - Programmable functions
	Transistor	1 insulated digital output open sink (uses as reference the 24VDC power supply) - Maximum current 150 mA** (maximum capacity for the 24VDC power supply) - Programmable functions 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.
	Power Supply	24VDC $\pm 20\%$ power supply. Maximum capacity: 150mA 10VDC power supply. Maximum capacity: 2mA
Communication	Interface RS485	- Insulated RS485 - Modbus-RTU/BACnet protocol with maximum communication of 38.4 kbps
Safety	Protection	- Overcurrent/phase-phase short circuit in the output - Overcurrent/phase-ground short circuit in the output - Under/overvoltage - Overtemperature in the heatsink - Overload in the motor - Overload in the power module (IGBTs) - External alarm/fault - Setting error
Keypad	Integral (HMI)	9 keys: Start/Stop, Up arrow, Down arrow, Direction of Rotation, Jog, Local/Remote, BACK/ESC, and ENTER/MENU - LCD display - View/editing of all parameters - Indication accuracy: -Current: 5% of the rated current -Speed resolution: 0.1 Hz
Enclosure	IP20	Available models in frame size A, B, C, D, E, F, and G
	NEMA1/IP20	Available models in frame size A, B, C, D, E, F, and G with NEMA1 kit
	NEMA 12	Enclosed models available in frame size A and B
	NEMA 4X Indoor/Outdoor	
	IP66 Indoor/Outdoor	



CFW500 AC Drives – Specifications

WEG CFW500 Drive Model Selection Tables, continued

CFW500 General Specifications, <i>continued</i> (Applicable to All Models)	
Input Voltage Range	1-phase & 3-phase 230V models: 200–240 VAC (-15%, +10%) 3-phase 460V models: 380–480 VAC (-15%, +10%)
Input Frequency Range	50/60Hz (48 to 62 Hz)
Allowable Input Phase Imbalance	≤3% of rated phase-to-phase input voltage
Overvoltage	Category III (IEC/EN 61010/UL 508C)
Ambient Operating Temperature	- 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. - 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 Drives: 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
Mounting	DIN rail or surface mounting with screws
Mounting Orientation	Vertical and upright; can be mounted side-to-side (zero stack)
Environmental Protection Rating	IP20 or IP66
Agency Approvals	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.

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

Continued on next page

* A_{rms} values noted with an asterisk are for 3-phase installations of 1-phase/3-phase capable drives.



CFW500 AC Drives – Specifications

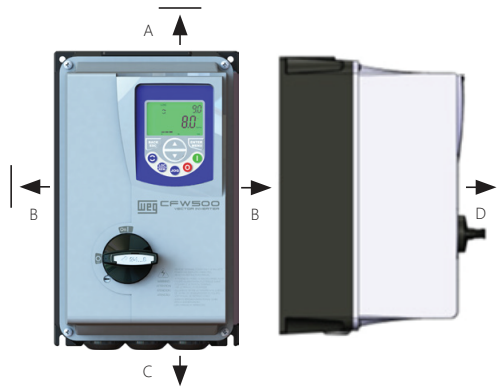
Minimum Clearances and Air Flow for WEG CFW500 IP20 Series Drives

CFW500 IP20 Loss Ratings and Temperatures											
WEG MAT #	Model #	Duty	Output Rated Current [A _{rms}]	Overload Currents		Rated Carrier Frequency [kHz]	Nominal Drive Surrounding Temperature		Input Rated Current [A _{rms}]	Drive Power Losses	
				1 min [A _{rms}]	3s [A _{rms}]		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											
<u>15577077</u>	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	
<u>15342437</u>	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
<u>15342760</u>	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
<u>15342909</u>	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
<u>15577211</u>	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	
<u>15577452</u>	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	
<u>15733937</u>	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
<u>15734064</u>	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
<u>15734119</u>	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
<u>15448371</u>	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
<u>15448372</u>	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
<u>15448373</u>	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_{rms} 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 _{rms}]	Overload Currents		Rated Carrier Frequency [kHz]	Nominal Drive Surrounding Temperature [°C/°F]	Input Rated Current [A _{rms}]	Drive Power Losses
			1 min [A _{rms}]	3s [A _{rms}]				Surface Mounting [W]
14989840	CFW500A01P6B2DB66G2	1.6	2.4	3.2	5	40 / 104	3.5 / 2.0*	18
14990863	CFW500A01P6B2DB66DSG2	1.6	2.4	3.2	5	40 / 104	3.5 / 2.0*	18
14990985	CFW500A02P6B2DB66G2	2.6	3.9	5.2	5	40 / 104	5.7 / 3.1*	30
14991103	CFW500A02P6B2DB66DSG2	2.6	3.9	5.2	5	40 / 104	5.7 / 3.1*	30
14991517	CFW500A04P3B2DB66G2	4.3	6.5	8.6	5	40 / 104	10.5 / 5.2*	49
14991753	CFW500A04P3B2DB66DSG2	4.3	6.5	8.6	5	40 / 104	10.5 / 5.2*	49
14937890	CFW500A07P3B2DB66G2	7.3	11	14.6	5	40 / 104	16 / 8.6*	84
14938005	CFW500A07P3B2DB66DSG2	7.3	11	14.6	5	40 / 104	16 / 8.6*	84
14938041	CFW500A10P0B2DB66G2	10	15	20	5	40 / 104	22.1 / 12*	115
14938047	CFW500A10P0B2DB66DSG2	10	15	20	5	40 / 104	22.1 / 12*	115
14938111	CFW500A16P0T2DB66G2	16	24	32	5	40 / 104	19.5	185
14938113	CFW500A16P0T2DB66DSG2	16	24	32	5	40 / 104	19.5	185
14975783	CFW500B24P0T2DB66G2	24	36	48	4	40 / 104	29	275
14975838	CFW500B24P0T2DB66DSG2	24	36	48	4	40 / 104	29	275
14938547	CFW500B28P0T2DB66G2	28	42	56	5	40 / 104	34.0	320
14938655	CFW500B28P0T2DB66DSG2	28	42	56	5	40 / 104	34.0	320
14991899	CFW500A01P0T4DB66G2	1	1.5	2	5	40 / 104	1.2	20
14991953	CFW500A01P0T4DB66DSG2	1	1.5	2	5	40 / 104	1.2	20
14992113	CFW500A01P6T4DB66G2	1.6	2.4	3.2	5	40 / 104	1.9	25
14992148	CFW500A01P6T4DB66DSG2	1.6	2.4	3.2	5	40 / 104	1.9	25
14975888	CFW500A02P6T4DB66G2	2.6	3.9	5.2	5	40 / 104	3.2	45
14976517	CFW500A02P6T4DB66DSG2	2.6	3.9	5.2	5	40 / 104	3.2	45
14976683	CFW500A04P3T4DB66G2	4.3	6.5	8.6	5	40 / 104	5.2	65
14976809	CFW500A04P3T4DB66DSG2	4.3	6.5	8.6	5	40 / 104	5.2	65
14976814	CFW500A06P5T4DB66G2	6.5	9.8	13	5	40 / 104	7.8	105
14977065	CFW500A06P5T4DB66DSG2	6.5	9.8	13	5	40 / 104	7.8	105
14977261	CFW500A10P0T4DB66G2	10	15	20	5	40 / 104	12	170
14977266	CFW500A10P0T4DB66DSG2	10	15	20	5	40 / 104	12	170
14977391	CFW500B14P0T4DB66G2	14	21	28	5	40 / 104	17.1	220
14977397	CFW500B14P0T4DB66DSG2	14	21	28	5	40 / 104	17.1	220
14977552	CFW500B16P0T4DB66G2	16	24	32	5	40 / 104	19.5	270
14977556	CFW500B16P0T4DB66DSG2	16	24	32	5	40 / 104	19.5	270
14977629	CFW500B24P0T4DB66G2	24	36	48	5	40 / 104	29.3	405
14978365	CFW500B24P0T4DB66DSG2	24	36	48	5	40 / 104	29.3	405
14978548	CFW500B31P0T4DB66G2	31	46.5	62	5	40 / 104	34.0	500
14978573	CFW500B31P0T4DB66DSG2	31	46.5	62	5	40 / 104	34.0	500

* A_{rms} values noted with an asterisk are for 3-phase installations of 1-phase/3-phase capable drives.

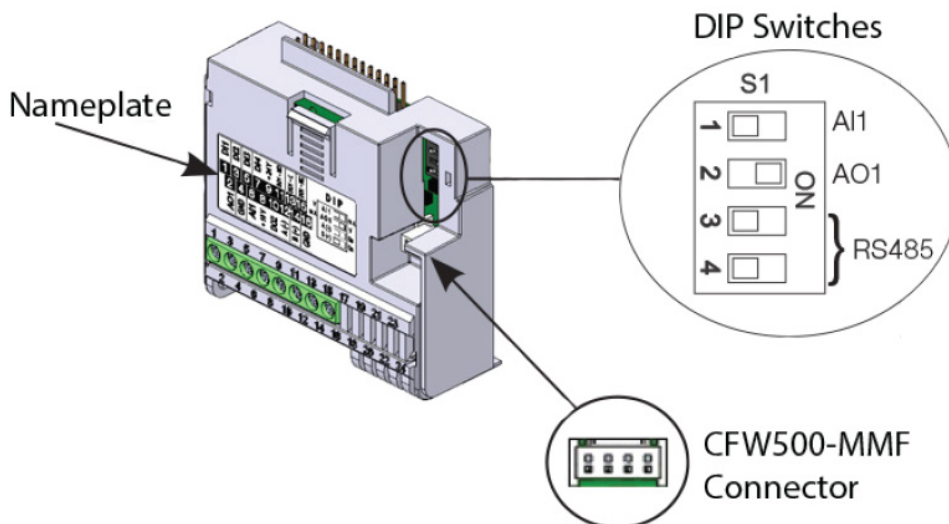


CFW500 Drives – Control Connections

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 mm² [20 AWG] to 1.5 mm² [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]



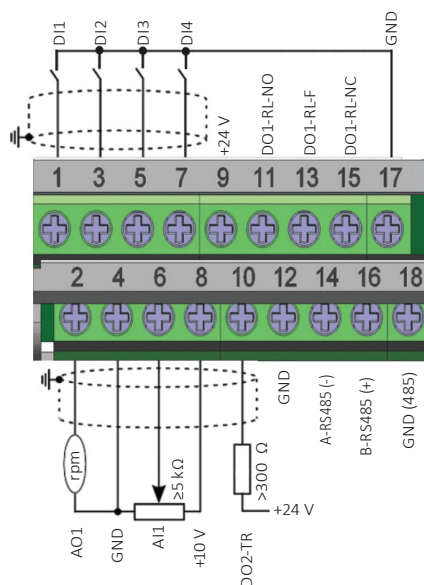
CFW500 Drives– Control Connections

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

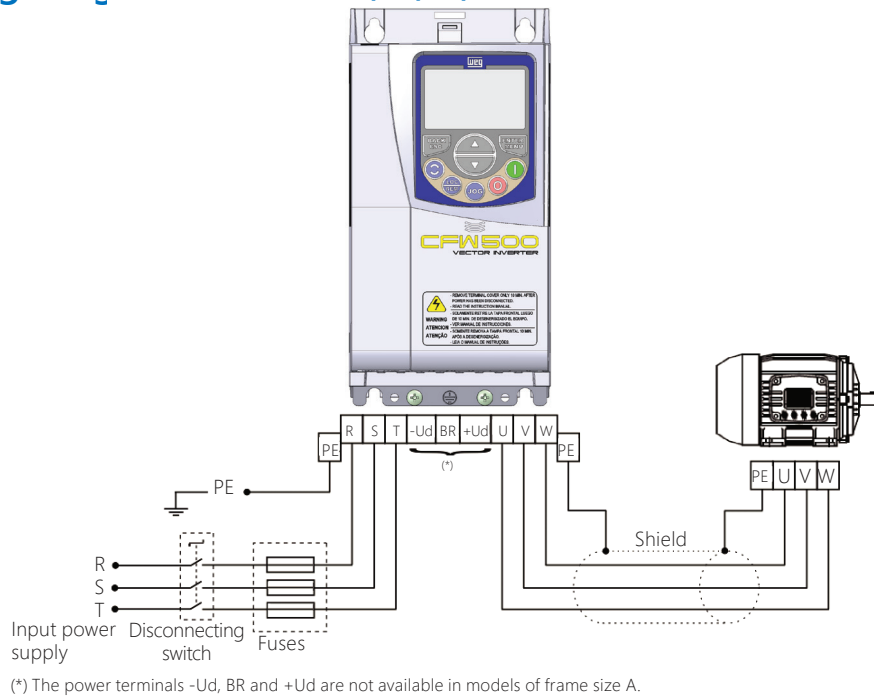
Type	Terminal	Description
Inputs	AI1	1 insulated input, levels: 0–10 V or 0–20 mA or 4–20 mA - Linearity error $\leq 0.25\%$ - Impedance: 100kΩ for voltage input, 500Ω for current input - Programmable functions - Maximum voltage permitted in the input: 30VDC
	DI1 – DI4*	4 insulated inputs - Programmable 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 - Maximum input voltage: 30VDC - Input current: 4.5 mA - Maximum input current: 5.5 mA
Outputs	AO1	1 insulated output, levels: 0–10 V or 0–20 mA or 4–20 mA - Linearity error $\leq 0.25\%$ - Programmable functions $R_L \geq 10 \text{ k}\Omega$ (0–10 V) or $R_L \leq 500\Omega$ (0–20 mA / 4–20 mA)
	DO1-RL-NO DO1-RL-F DO1-RL-NC	1 relay with NA/NF contact - Maximum voltage: 240VAC - Maximum current: 0.5 A - Programmable functions
	DO2-TR	1 insulated digital output open sink (uses as reference the 24VDC power supply) - Maximum current 150 mA (maximum capacity for the 24VDC power supply) - Programmable functions 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.
	“+24V” “+10V”	24VDC $\pm 20\%$ power supply. Maximum capacity: 150mA** 10VDC power supply. Maximum capacity: 2mA
Communication	A-RS485(-) B-RS485(+) GND(485)	- Insulated RS485 - Modbus-RTU/BACnet protocol with maximum communication of 38.4 kbps

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

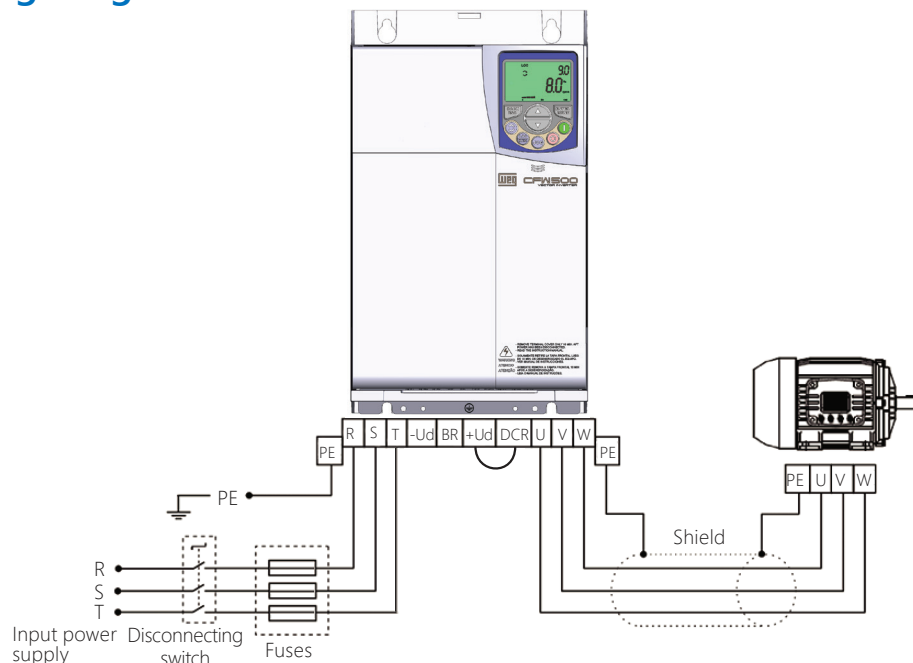


CFW500 Drives – Basic Wiring Diagrams

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.

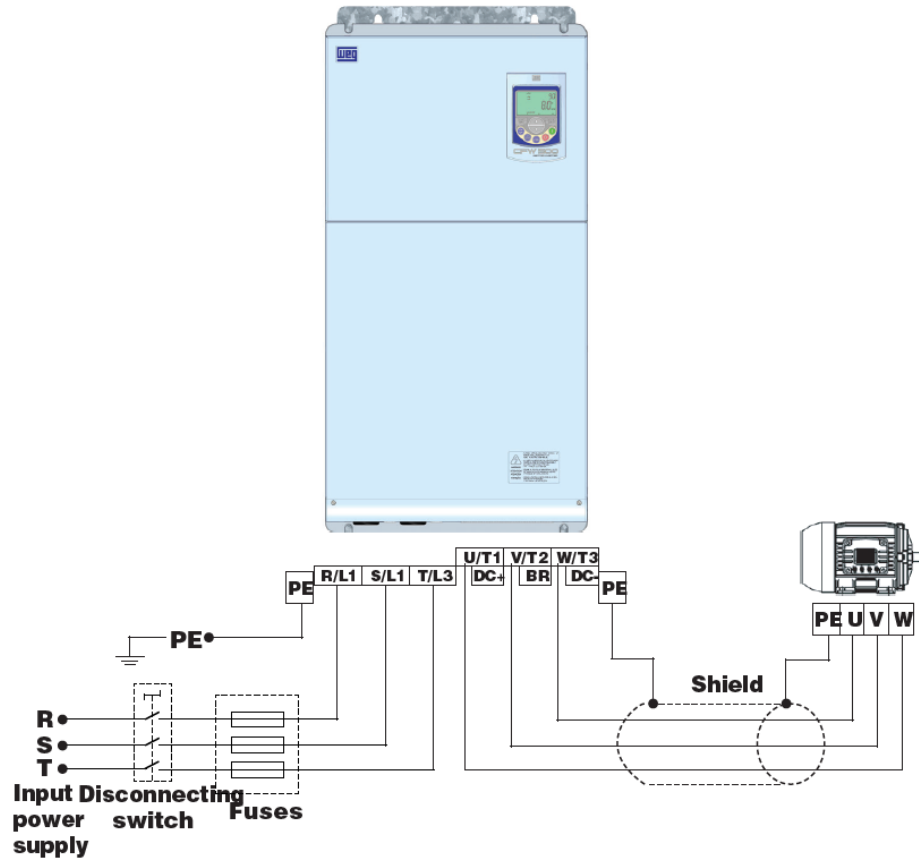


Note: The input power supply voltage must be compatible with the drive rated voltage. Power factor correction capacitors are not needed at the drive input (L/L1, N/L2, L3, or R, S, T) and must not be installed at the output (U, V, W).



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.



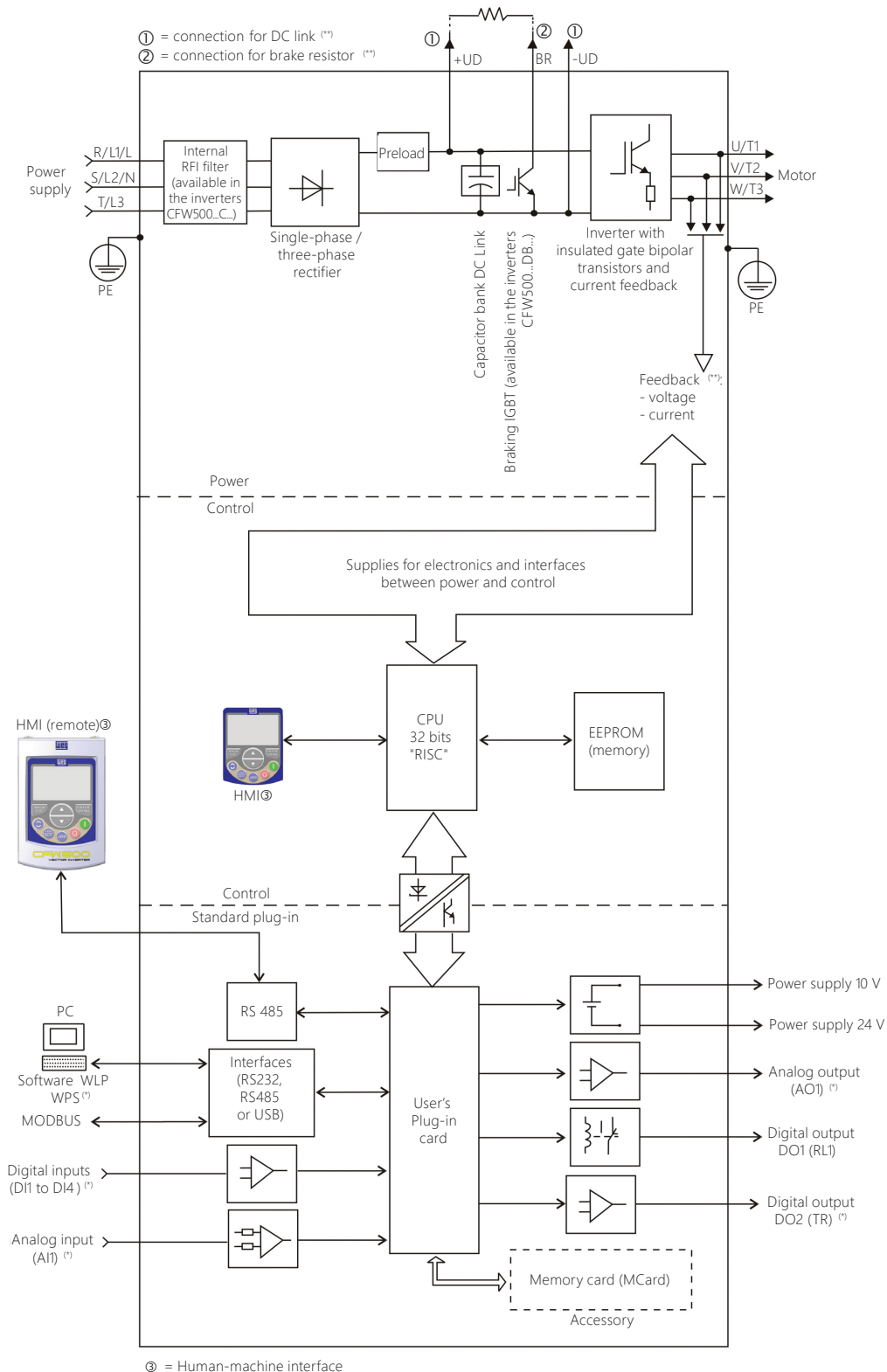
Note: The input power supply voltage must be compatible with the drive rated voltage. Power factor correction capacitors are not needed at the drive input (L/L1, N/L2, L3, or R, S, T) and must not be installed at the output (U, V, W).



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.

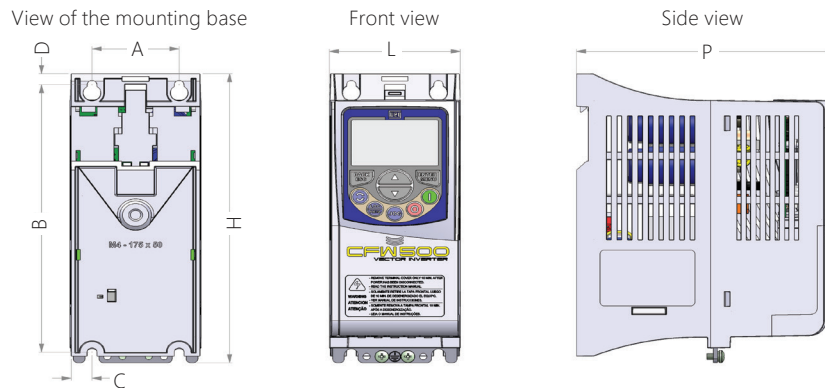
(**) Not available in frame size A.

WEG CFW500 AC Drives – Drive Mounting

WEG CFW500 IP20 Drive Positioning and Mounting

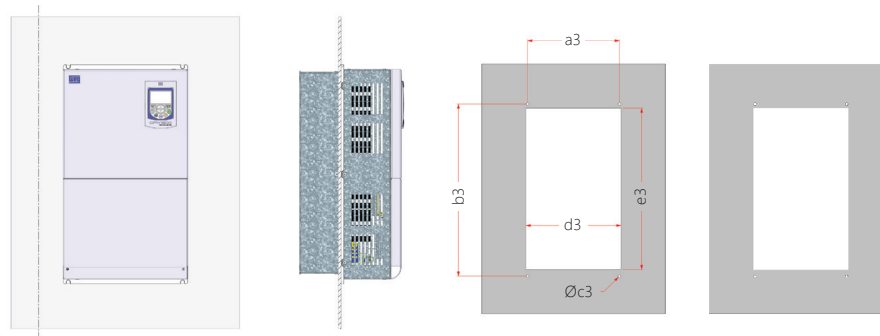
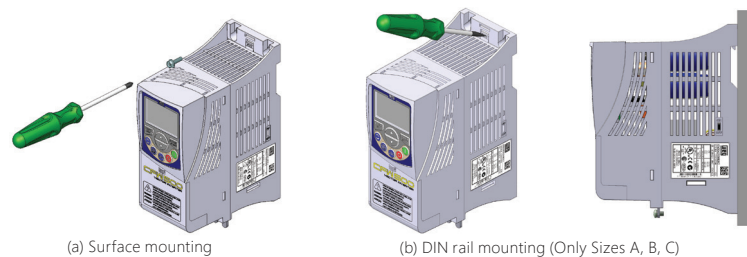
Mount the drive in the upright position on a flat and vertical service. Install and tighten the screws per the maximum torque values in the table below.

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 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.

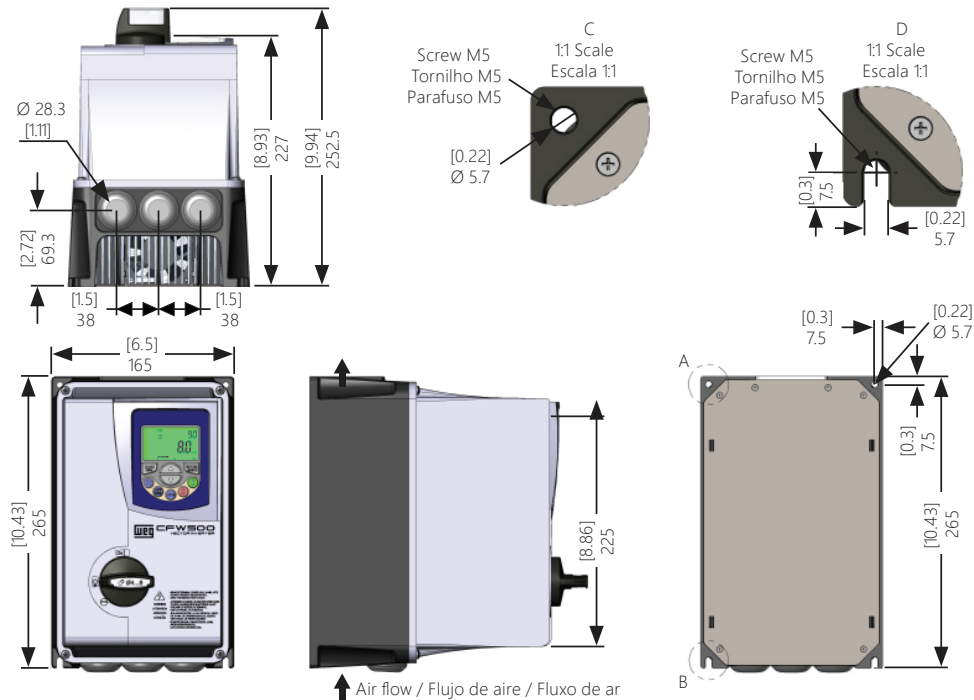


Figure A.1: Dimensions of the CFW500 IP66 frame size A
 Figura A.1: Dimensiones CFW500 IP66 tamaño A
 Figura A.1: Dimensões CFW500 IP66 mecânica A

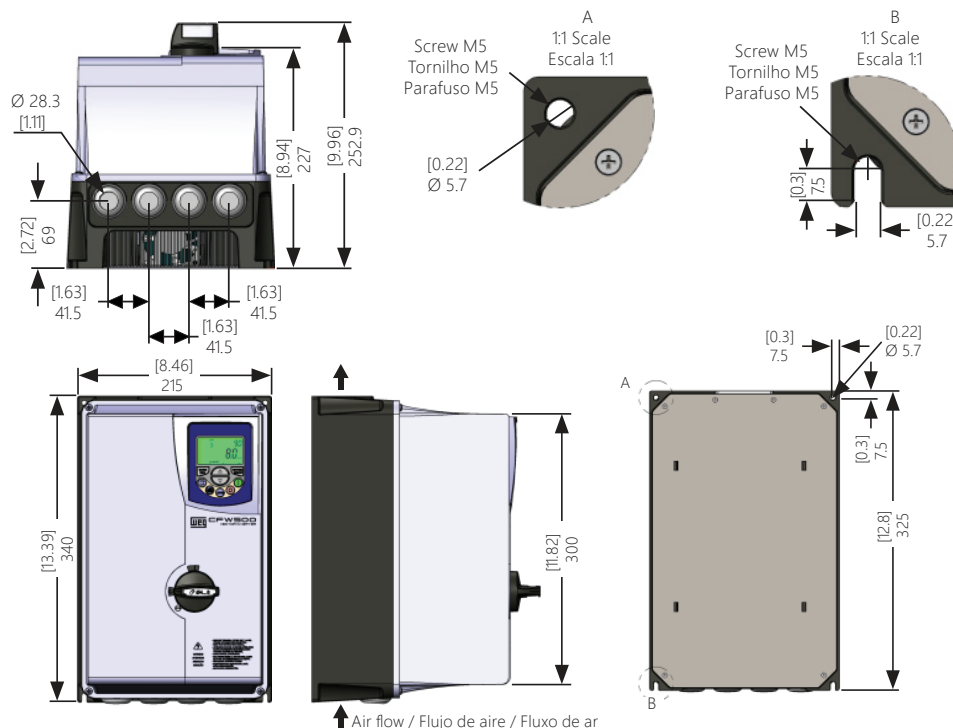


Figure A.2: Dimensions of the CFW500 IP66 frame size B
 Figura A.2: Dimensiones CFW500 IP66 tamaño B
 Figura A.2: Dimensões CFW500 IP66 mecânica B



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

WEG 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
15560296	CFW500-SFY2	72.00	Safety function module (STO and SS1-t)*	Safety functions	Safe torque off (STO) according to IEC/EN 61800-6-2 or stop category 0 according to IEC/EN 60204-1	PDF	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		
				Safety category	SIL 3, per IEC 61508 / IEC 62061 / IEC 61800-5-2 PL e, category 4, as pwer EN ISO 13849-1		
				PFD _{avg}	< 2.74 x 10 ⁻⁴		
				PFH (1/h)	<3.13 x 10 ⁻⁹		
				MTTF _d (y)	> 1600 years		
				DC _{avg}	93%		
				Proof test interval	20 years		
				Response/reaction time	<100ms		
				OSSD test pulses	Pulse duration: <1ms Interval between pulses on same channel: >8ms Interval between pulses on different channels: >4ms		
				Safety input signals	ON: 15VDC – 30 VDC		
				Maximum discrepancy time between safety input signals	1s		
				Safety power supply	+24VDC ± 15% SELV type according to IEC 60950-1 PELV type according to IEC 60204-1		

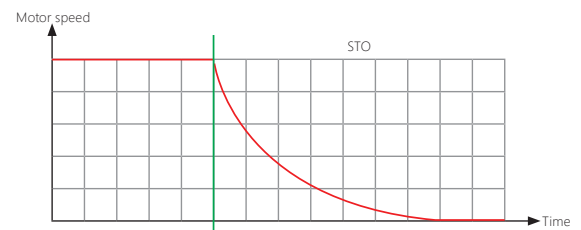


Figure 1.1: STO behavior

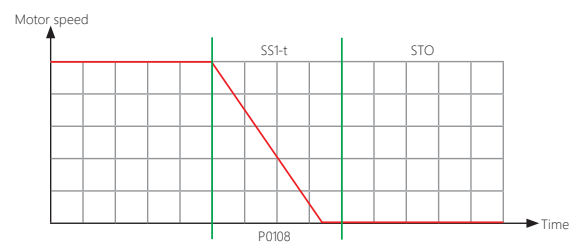


Figure 1.2: SS1-t behavior

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
14741859	CFW500-IOS	56.00	Standard plug-in module, replacement	Replacement for CFW500-IOS module that comes standard with all WEG CFW500 drives. - Analog input: 1-channel, current/voltage - Analog output: 1-channel, current/voltage - Discrete input: 4-point, sourcing - Discrete output: 2-point, relay (1) Form C (SPDT) relay	PDF	All
14742006	CFW500-IOD	72.00	Digital input and output plug-in module (I/O)	WEG Electric CFW500 series relay/analog combo module. - Analog input: 1-channel, current/voltage - Analog output: 1-channel, current/voltage - Discrete input: 8-point, sourcing - Discrete output: 5-point, relay (1) Form C (SPDT) relay	PDF	All
14742129	CFW500-IOAD	93.00	Digital and analog input and output plug-in module (I/O)	WEG Electric CFW500 series relay/analog combo module. - Analog input: 3-channel, current/voltage - Analog output: 2-channel, current/voltage - Discrete input: 6-point, sourcing - Discrete output: 4-point, relay (1) Form C (SPDT) relay	PDF	All
14968050	CFW500-IOR-B	63.00	Digital output communication plug-in module	WEG Electric CFW500 series relay/analog combo module. - Analog input: 1-channel, current/voltage - Analog output: 1-channel, current voltage - Discrete input: 5-point, sinking/sourcing - Discrete output: 5-point relay (3) Form A (SPST) relays, (1) Form C (SPDT) relay	PDF	All
12619000	CFW500-ENC	107.00	Encoder input module	WEG Electric CFW500 series encoder analog combo module. 400kHz maximum switching frequency 1-channel quadrature encoder input - Analog input: 1-channel - Analog Output: 1-channel	PDF	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
14741859	CFW500-IOS	4	1	—	1	1	1	1	1	1
14742006	CFW500-IOD	8	1	—	1	1	4	1	1	1
14742129	CFW500-IOAD	6	3	—	2	1	3	1	1	1
14968050	CFW500-IOR-B	5	1	—	1	4	1	1	1	1
12619000	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
<u>14742001*</u>	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	<u>PDF</u>	All
<u>14742005</u>	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	<u>PDF</u>	All
<u>15353140</u>	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	<u>PDF</u>	All
<u>12892814</u>	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	<u>PDF</u>	All
<u>12892815</u>	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	<u>PDF</u>	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
<u>14742001</u>	CFW500-CUSB	4	1	1	1	1	1	–	1	–	–	1	1
<u>14742005</u>	CFW500-CRS232	2	1	1	1	1	–	1	1	–	–	–	1
<u>15353140</u>	CFW500-CRS485-B	4	2	1	2	1	–	–	2	–	–	1	1
<u>12892814</u>	CFW500-CETH-IP	2	1	1	1	1	–	–	1	1	–	–	1
<u>12892815</u>	CFW500-CEMB-TCP	2	1	1	1	1	–	–	1	–	1	–	1



14742001



14742005



12892814

WEG CFW500 AC Drives – Accessories

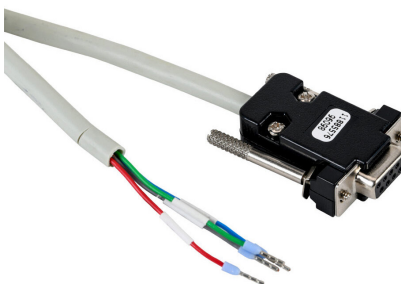
WEG CFW500 HMI Accessories and Cables

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
11833992	CFW500-HMIR	86.00	Serial remote keypad	WEG Electric CFW500 series remote serial HMI keypad. Mounting hardware included. HMI cable kit required.	PDF	All
15578295	HMI-01	104.00	Advanced remote keypad	WEG Electric CFW500 series remote advanced text HMI keypad. Mounting hardware included. HMI cable kit required.	PDF	All
15578297	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.	PDF	All
12330016	CFW500-CCHMIR01M	12.00	1m serial remote keypad cable kit	WEG Electric CFW500 series keypad mounting cable, cable length 3.2 ft [1m].	PDF	All
12330460	CFW500-CCHMIR03M	21.00	3m serial remote keypad cable kit	WEG Electric CFW500 series keypad mounting cable, cable length 9.8 ft [3m].	PDF	All
12330461	CFW500-CCHMIR05M	26.00	5m serial remote keypad cable kit	WEG Electric CFW500 series keypad mounting cable, cable length 16.4 ft [5m].	PDF	All
12330463	CFW500-CCHMIR10M	37.00	10m serial remote keypad cable kit	WEG Electric CFW500 series keypad mounting cable, cable length 32.8 ft [10m].	PDF	All
11636485	CFW500-MMF	97.00	Flash memory module	WEG Electric CFW500 series flash memory module. - Allows data transfer such as user parameters and SoftPLC user programs - Battery powered, drive should be disconnected from power during data transfer - DO NOT USE when the drive is powered on	PDF	All



11833992



1233 series cable



11636485



15578295

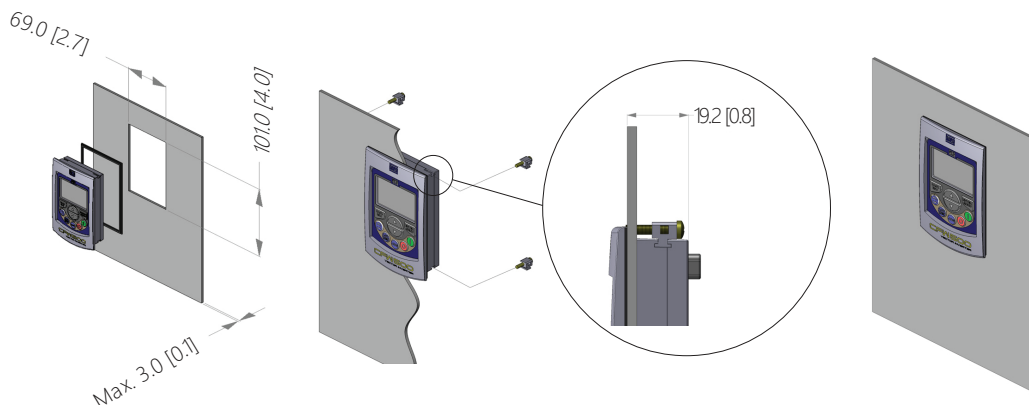


15578297

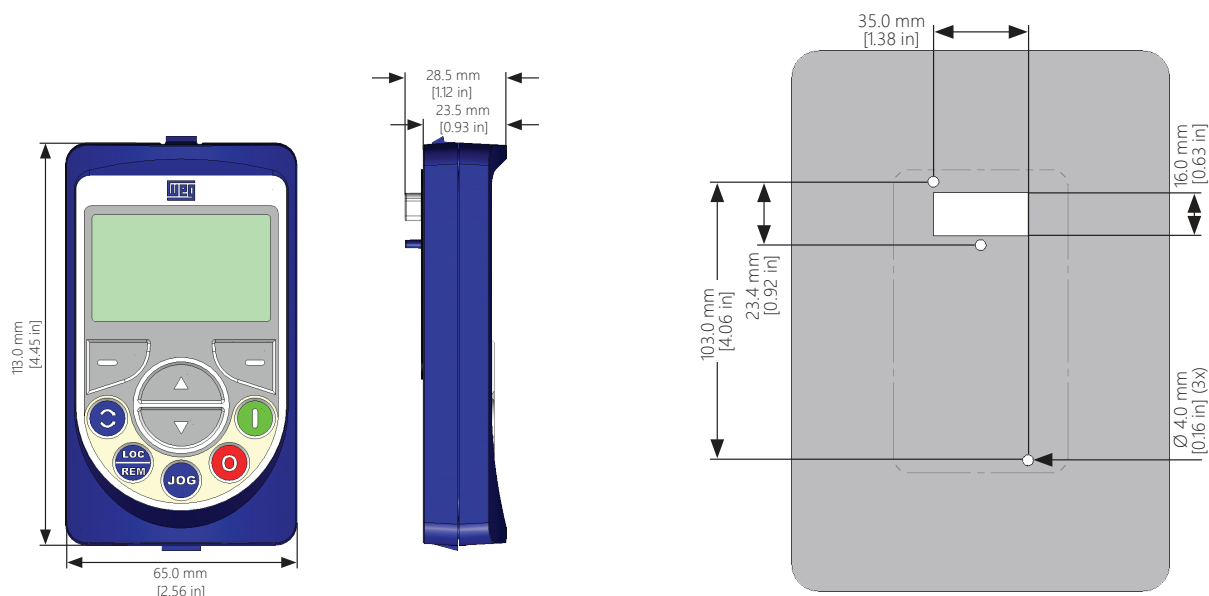
WEG CFW500 AC Drives – Accessories

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	CFW500 Drive
<u>11527460</u>	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.	<u>PDF</u>	IP20
<u>11527459</u>	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.	<u>PDF</u>	IP20
<u>12133824</u>	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.	<u>PDF</u>	IP20
<u>12692970</u>	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.	<u>PDF</u>	IP20
<u>13104601</u>	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.	<u>PDF</u>	IP20
<u>14601107</u>	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.	<u>PDF</u>	IP20
<u>15461789</u>	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.	<u>PDF</u>	IP20





CFW500 AC Drives – Accessories

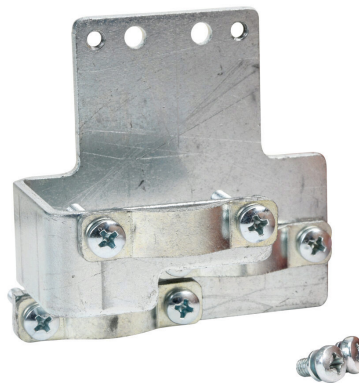
WEG CFW500 Optional Cable Clamps

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
<u>11951056</u>	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.	<u>PDF</u>	IP20
<u>11951108</u>	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.	<u>PDF</u>	IP20
<u>12133826</u>	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.	<u>PDF</u>	IP20
<u>12692971</u>	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.	<u>PDF</u>	IP20
<u>13055389</u>	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.	<u>PDF</u>	IP20
<u>14601158</u>	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.	<u>PDF</u>	IP20
<u>15461788</u>	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.	<u>PDF</u>	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
<u>14391148</u>	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	<u>PDF</u>	IP20, Frame A
<u>12350492</u>	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	<u>PDF</u>	IP20, Frame B and C
<u>14391151</u>	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	<u>PDF</u>	15575716
<u>12852366</u>	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	<u>PDF</u>	15576540
<u>14391152</u>	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	<u>PDF</u>	15576919
<u>12852367</u>	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	<u>PDF</u>	15577021
<u>13770165</u>	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	<u>PDF</u>	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
<u>15245117</u>	CFW50X-FAN-F1	247.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. • 80 x 80 x 38 mm • 24VDC • For use with CFW500 series F Frame AC drives	<u>PDF</u>	IP20, Frame F
<u>12295730</u>	FAN 24VDC CAB 40mm	334.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. • 150 x 172 x 51 mm • 24VDC • For use with CFW500 series G frame 75hp AC drives	<u>PDF</u>	IP20, Frame G
<u>12295732</u>	FAN 48VDC CAB 60mm	596.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. • 150 x 172 x 51 mm • 48VDC • For use with CFW500 series G frame 100 and 150 hp AC drives	<u>PDF</u>	IP20, Frame G
<u>15746587</u>	CFW500-66-FAN-AB	62.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. • 60 x 60 x 25 mm • 12VDC • For use with CFW500 series IP66 230VAC 7.5 hp and below, 480VAC 10hp and below AC drives	<u>PDF</u>	IP66, Frame A & B
<u>15746630</u>	CFW500-66-FAN-B	106.00	Replacement cooling fan	WEG Electric CFW500 series main cooling fan, replacement. • 60 x 60 x 38 mm • 24VDC • For use with CFW500 series IP66 230VAC 10hp, 480VAC 15 and 20 hp AC drives	<u>PDF</u>	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 ¹		Class J Holder	
				1-Phase	3-Phase	1-Phase	3-Phase
IP20 Drives							
15570800	CFW500A01P6B2NB20G2	1-phase or 3-phase / 230VAC	20	JHL20 (JHL20-1)	JHL20 (JHL20-1)	JM60030-2CR	JM60030-3CR
15571879	CFW500A02P6B2NB20G2		20	JHL20 (JHL20-1)	JHL20 (JHL20-1)	JM60030-2CR	JM60030-3CR
15571881	CFW500A04P3B2NB20G2		25	JHL25 (JHL25-1)	JHL20 (JHL20-1)	JM60030-2CR	JM60030-3CR
15574655	CFW500B07P3B2DB20G2		40	JHL40 (JHL40-1)	JHL20 (JHL20-1)	JM60060-2CR	JM60030-3CR
15575067	CFW500B10P0B2DB20G2		60	JHL60 (JHL60-1)	JHL25 (JHL25-1)	JM60060-2CR	JM60030-3CR
15572625	CFW500A07P0T2NB20G2	3-phase / 230VAC	20	-	JHL20 (JHL20-1)	-	JM60030-3CR
15572689	CFW500A09P6T2NB20G2		25		JHL25 (JHL25-1)		JM60030-3CR
15575202	CFW500B16P0T2DB20G2		40		JHL40 (JHL40-1)		JM60060-3CR
15575701	CFW500C24P0T2DB20G2		60		JHL60 (JHL60-1)		JM60060-3CR
15575716	CFW500D28P0T2DB20G2		60		JHL60 (JHL60-1)		JM60060-3CR
15576540	CFW500D47P0T2DB20G2		60		JHL100		JM60100-1MW14-3
15577077	CFW500E56P0T2DB20G2		125		JHL125		JM60200-1MW16-3
15342437	CFW500F77P0T2DB20G2		125		Mersen A100P125-4 ³		Mersen P266L ³
15342760	CFW500F88P0T2DB20G2		125		Mersen A100P125-4 ³		Mersen P266L ³
15342909	CFW500F0105T2DB20G2		125		Mersen A100P125-4 ³		Mersen P266L ³
15572819	CFW500A01P0T4NB20G2		20		JHL20 (JHL20-1)		JM60030-3CR
15572908	CFW500A01P6T4NB20G2		20		JHL20 (JHL20-1)		JM60030-3CR
15573714	CFW500A02P6T4NB20G2		20		JHL20 (JHL20-1)		JM60030-3CR
15573819	CFW500A04P3T4NB20G2		20		JHL20 (JHL20-1)		JM60030-3CR
15573823	CFW500A06P1T4NB20G2		20		JHL20 (JHL20-1)		JM60030-3CR
15575568	CFW500B02P6T4DB20G2	20	JHL20 (JHL20-1)	JM60030-3CR			
15575577	CFW500B04P3T4DB20G2	20	JHL20 (JHL20-1)	JM60030-3CR			
15575665	CFW500B06P5T4DB20G2	20	JHL20 (JHL20-1)	JM60030-3CR			
15575699	CFW500B10P0T4DB20G2	25	JHL25 (JHL25-1)	JM60030-3CR			
15575707	CFW500C14P0T4DB20G2	35	JHL35 (JHL35-1)	JM60060-3CR			
15575711	CFW500C16P0T4DB20G2	35	JHL35 (JHL35-1)	JM60060-3CR			
15576919	CFW500D24P0T4DB20G2	60	JHL60 (JHL60-1)	JM60060-3CR			
15577021	CFW500D31P0T4DB20G2	60	JHL60 (JHL60-1)	JM60060-3CR			
15577211	CFW500E39P0T4DB20G2	80	JHL80	JM60100-1MW14-3			
15577452	CFW500E49P0T4DB20G2	100	JHL100	JM60100-1MW14-3			
15733937	CFW500F77P0T4DB20G2	125	JHL125	JM60200-1MW16-3			
15734064	CFW500F88P0T4DB20G2	125	JHL125	JM60200-1MW16-3			
15734119	CFW500F0105T4DB20G2	125	JHL125	JM60200-1MW16-3			
15448371	CFW500G0142T4DB20G2	300	Mersen A100P300-4 ³	3 x Mersen P266L ³			
15448372	CFW500G0180T4DB20G2	300	Mersen A100P300-4 ³	3 x Mersen P266L ³			
15448373	CFW500G0211T4DB20G2	300	Mersen A100P300-4 ³	3 x Mersen P266L ³			
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 ¹		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							
15570800	CFW500A01P6B2NB20G2	1-phase / 3-phase 230VAC IP20	16	MPW40-3-D063 / MPW40-3-D025	CLT32MPW40	LST25	TSB
15571879	CFW500A02P6B2NB20G2		16	MPW40-3-U010 / MPW40-3-U004			
15571881	CFW500A04P3B2NB20G2		16	MPW40-3-U016 / MPW40-3-D063			
15574655	CFW500B07P3B2DB20G2		25	MPW40-3-U025 / MPW40-3-U016			
15575067	CFW500B10P0B2DB20G2		25	MPW40-3-U032 / MPW40-3-U016			
15572625	CFW500A07P0T2NB20G2	3-phase 230VAC IP20	16	MPW40-3-U010	Any UL Listed CB	N/A	
15572689	CFW500A09P6T2NB20G2		16	MPW40-3-U016			
15575202	CFW500B16P0T2DB20G2		25	MPW40-3-U025			
15575701	CFW500C24P0T2DB20G2		32	MPW40-3-U032			
15575716	CFW500D28P0T2DB20G2		125				
15576540	CFW500D47P0T2DB20G2		125				
15577077	CFW500E56P0T2DB20G2		125				
15342437	CFW500F77P0T2DB20G2		225				
15342760	CFW500F88P0T2DB20G2		225				
15342909	CFW500F105T2DB20G2		225				
15572819	CFW500A01P0T4NB20G2	3-phase 460VAC IP20	16	MPW40-3-D016	CLT32MPW40	LST25	TSB
15572908	CFW500A01P6T4NB20G2		16	MPW40-3-D025			
15573714	CFW500A02P6T4NB20G2		16	MPW40-3-U004			
15573819	CFW500A04P3T4NB20G2		16	MPW40-3-D063			
15573823	CFW500A06P1T4NB20G2		16	MPW40-3-U010			
15575568	CFW500B02P6T4DB20G2		25	MPW40-3-U004			
15575577	CFW500B04P3T4DB20G2		25	MPW40-3-D063			
15575665	CFW500B06P5T4DB20G2		25	MPW40-3-U010			
15575699	CFW500B10P0T4DB20G2		25	MPW40-3-U016			
15575707	CFW500C14P0T4DB20G2		32	MPW40-3-U020			
15575711	CFW500C16P0T4DB20G2		32	MPW40-3-U032			
15576919	CFW500D24P0T4DB20G2		40	Any UL Listed CB	N/A		
15577021	CFW500D31P0T4DB20G2		50				
15577211	CFW500E39P0T4DB20G2		50				
15577452	CFW500E49P0T4DB20G2		65				
15733937	CFW500F77P0T4DB20G2		100				
15734064	CFW500F88P0T4DB20G2		100				
15734119	CFW500F105T4DB20G2		125				
15448371	CFW500G0142T4DB20G2		175				
15448372	CFW500G0180T4DB20G2		225				
15448373	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							
14990863	CFW500A01P6B2DB66DSG2	1-phase / 3-phase 230VAC IP66	16	MPW40-3-U025 / MPW40-3-U016	CLT32MPW40	LST25	TSB
14991103	CFW500A02P6B2DB66DSG2		16				
14991753	CFW500A04P3B2DB66DSG2		16				
14938005	CFW500A07P3B2DB66DSG2		25	MPW40-3-U025 / MPW40-3-U016			
14938047	CFW500A10P0B2DB66DSG2		25	MPW40-3-U032 / MPW40-3-U016			
14938113	CFW500A16P0T2DB66DSG2	3-phase 230VAC IP66	25.0	MPW40-3-U025			
14975838	CFW500B24P0T2DB66DSG2		32.0	MPW40-3-U032			
14938655	CFW500B28P0T2DB66DSG2		125.0	Any UL Listed CB	N/A		
14991953	CFW500A01P0T4DB66DSG2	3-phase 460VAC IP66	16.0	MPW40-3-U016	CLT32MPW40	LST25	TSB
14992148	CFW500A01P6T4DB66DSG2		16.0				
14976517	CFW500A02P6T4DB66DSG2		25.0				
14976809	CFW500A04P3T4DB66DSG2		25.0				
14977065	CFW500A06P5T4DB66DSG2		25.0	MPW40-3-U025			
14977266	CFW500A10P0T4DB66DSG2		25.0				
14977397	CFW500B14P0T4DB66DSG2		32.0		MPW40-3-U032		
14977556	CFW500B16P0T4DB66DSG2		32.0	MPW40-3-U032			
14978365	CFW500B24P0T4DB66DSG2		125.0	Any UL Listed CB	N/A		
14978573	CFW500B31P0T4DB66DSG2		125.0				
14989840	CFW500A01P6B2DB66G2	1-phase / 3-phase 230VAC IP66	16	MPW40-3-U025 / MPW40-3-U016	CLT32MPW40	LST25	TSB
14990985	CFW500A02P6B2DB66G2		16				
14991517	CFW500A04P3B2DB66G2		16				
14937890	CFW500A07P3B2DB66G2		25	MPW40-3-U025 / MPW40-3-U016			
14938041	CFW500A10P0B2DB66G2		25	MPW40-3-U032 / MPW40-3-U016			
14938111	CFW500A16P0T2DB66G2	3-phase 230VAC IP66	25.0	MPW40-3-U025	CLT32MPW40	LST25	TSB
14975783	CFW500B24P0T2DB66G2		32.0	MPW40-3-U032			
14938547	CFW500B28P0T2DB66G2		125.0	Any UL Listed CB			
14991899	CFW500A01P0T4DB66G2	3-phase 460VAC IP66	16.0	MPW40-3-U016	CLT32MPW40	LST25	TSB
14992113	CFW500A01P6T4DB66G2		16.0				
14975888	CFW500A02P6T4DB66G2		25.0				
14976683	CFW500A04P3T4DB66G2		25.0				
14976814	CFW500A06P5T4DB66G2		25.0	MPW40-3-U025			
14977261	CFW500A10P0T4DB66G2		25.0				
14977391	CFW500B14P0T4DB66G2		32.0		MPW40-3-U032		
14977552	CFW500B16P0T4DB66G2		32.0				
14977629	CFW500B24P0T4DB66G2		125.0	Any UL Listed CB	N/A		
14978548	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	15570800	A01P6B2NB20		1/3	1.6	0.25	No Dynamic Braking (These Models)								
	15572819	A01P0T4NB20		3	1		No Dynamic Braking (These Models)								
	14990863	A01P6B2DB66DS	IP66D	1/3	1.6		127	6	4.6	GS-BR-400W150	1	2.6	BR-N1-240W150	1	2.6
	14989840	A01P6B2DB66	IP66		1						1				
	14991103	A02P6B2DB66DS	IP66D		1						1				
	14990985	A02P6B2DB66	IP66		1						1				
	15571879	A02P6B2NB20				0.5	No Dynamic Braking (These Models)								
	15572908	A01P6T4NB20		3	1.6	0.75	No Dynamic Braking (These Models)								
	14991753	A04P3B2DB66DS	IP66D	1/3	4.3	1	127	6	4.6	GS-BR-400W150	1	2.6	BR-N1-240W150	1	2.6
	14991517	A04P3B2DB66	IP66		1	1									
	15571881	A04P3B2NB20			No Dynamic Braking (These Models)										
	15574655	B07P3B2DB20	IP20		7.3	2	39	10	3.9	GS-BR-400W040	1	9.8	BR-N1-280W50	1	7.8
	14938005	A07P3B2DB66DS	IP66D		1						1				
	14937890	A07P3B2DB66	IP66		1						1				
	15572625	A07P0T2NB20		7	No Dynamic Braking (These Models)										
	15575067	B10P0B2DB20	IP20	3	10	3	27	15	6.1	GS-BR-400W040	1	9.8	BR-N1-280W50	1	7.8
	14938047	A10P0B2DB66DS	IP66D		1						1				
	14938041	A10P0B2DB66	IP66		1						1				
	15572689	A09P6T2NB20		9.6	No Dynamic Braking (These Models)										
	15575202	B16P0T2DB20	IP20	3	16	5	20	20	8	GS-BR-400W040	1	9.8	BR-N1-800W25	1	15.6
	14938113	A16P0T2DB66DS	IP66D		1	1									
	14938111	A16P0T2DB66	IP66		1	1									
	15575701	C24P0T2DB20	IP20		24	7.5	15	26	10.1	GS-BR-1K0W020	1	19.5	BR-N1-800W18P0	1	21.7
	14975838	B24P0T2DB66DS	IP66D		1	1									
	14975783	B24P0T2DB66	IP66		1	1									
	15575716	D28P0T2DB20	IP20		28	10	10	38	14.4	GS-BR-1K5W013	1	30.0	BR-N1-1K5W14P0	1	27.9
	14938655	B28P0T2DB66DS	IP66D		1	1									
	14938547	B28P0T2DB66	IP66		1	1									
	15576540	D47P0T2DB20	IP20		47	15	8.6	45	17.4	GS-BR-1K5W3P3	1	59.1	BR-N1-2K2W08P6	1	45.3
	15577077	E56P0T2DB20	IP20		56	20	4.7	95	42.4		2S			1	
	15342437	F77P0T2DB20	IP20		77		6	66.7	26.7		2S			1	
	15342760	F88P0T2DB20	IP20		88						25			2S	
	15342909	F0105T2DB20	IP20		105	30	3	133	53.1		2S			1	114.7

Table continued on next page

* 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

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	14992148	A01P6T4DB66DS	IP66D		1.6	0.25	127	6	4.6	GS-BR-400W150	1	5.3	BR-N1-240W150	1	5.3								
	14992113	A01P6T4DB66	IP66		1	0.33					1			1									
	14991953	A01P0T4DB66DS	IP66D			1					1												
	14991899	A01P0T4DB66	IP66			1					1												
	15573714	A02P6T4NB20			2.6	1	No Dynamic Braking (These Models)																
	15575568	B02P6T4DB20	IP20				GS-BR-400W150	1	5.3	BR-N1-240W150	1	5.3											
	14976517	A02P6T4DB66DS	IP66D					1			1												
	14975888	A02P6T4DB66	IP66					1			1												
	15573819	A04P3T4NB20			4.3	2	No Dynamic Braking (These Models)																
	15575577	B04P3T4DB20	IP20				GS-BR-400W150	1	5.3	BR-N1-240W150	1	5.3											
	14976809	A04P3T4DB66DS	IP66D					1			1												
	14976683	A04P3T4DB66	IP66					1			1												
	15573823	A06P1T4NB20	–	6.1	3	No Dynamic Braking (These Models)																	
	15575665	B06P5T4DB20	IP20	6.5		100	8	6.4	GS-BR-300W250	2P	6.3	BR-N1-500W200	1	4.0									
	14977065	A06P5T4DB66DS	IP66D							2P			1										
	14976814	A06P5T4DB66	IP66							2P			1										
	15575699	B10P0T4DB20	IP20	10	5	47	16	12	GS-BR-1K0W075	1	10.5	BR-N1-720W85	1	9.3									
	14977266	A10P0T4DB66DS	IP66D							1			1										
	14977261	A10P0T4DB66	IP66							1			1										
	15575707	C14P0T4DB20	IP20							1			1										
	14977397	B14P0T4DB66DS	IP66D	14	7.5	33	24	19	GS-BR-1K5W043	1	18.4	BR-N1-720W85	1	9.3									
	14977391	B14P0T4DB66	IP66		10					1			1										
	16675711	C16P0T4DB20	IP20	16	10	33	24	19		1			18.4		BR-N1-1K2W50	1	15.8						
	14977556	B16P0T4DB66DS	IP66D							1						1							
	14977552	B16P0T4DB66	IP66						1	1													
	15576919	D24P0T4DB20	IP20						2P	1													
	14978365	B24P0T4DB66DS	IP66D	24	15	22	34	25.4	2P	39.5	BR-N1-1K5W40	1	19.8										
	14977629	B24P0T4DB66	IP66						2P			1											
	15577021	D31P0T4DB20	IP20						2P			1											
	14978573	B31P0T4DB66DS	IP66D						2S2P			1											
	14978548	B31P0T4DB66	IP66	31	20	18	48	41.5	GS-BR-1K0W020	2S2P	39.5	BR-N1-1K7W30	1	26.3									
	15577211	E39P0T4DB20	IP20							2S2P			1										
	15577452	E49P0T4DB20	IP20							2S2P			1										
	15733937	F77P0T4DB20	IP20							2S2P			1										
	15734064	F88P0T4DB20	IP20	88	50	12	66.7	53.4	GS-BR-1K5W013GS-BR-1K5W013	2S2P	60.8	BR-N1-4K7W14P7	1	53.7									
	15734119	F0105T4DB20	IP20							2S2P			1										
	15448371	G0142T4DB20	IP20							2S2P			1										
	15448372	G0180T4DB20	IP20							2S2P			1										
	15448373	G0211T4DB20	IP20	211	150	2.2	364	284	GS-BR-1K5W012	2S2P	65.8	BR-N1-6K9W13P6	1	58.1									
																					1	183.7	
																					1		213.5
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* 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

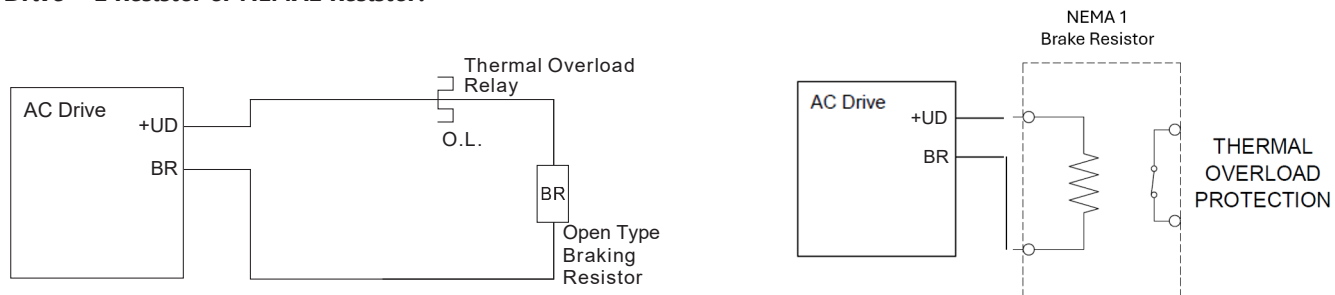


CFW500 Compatible Accessories

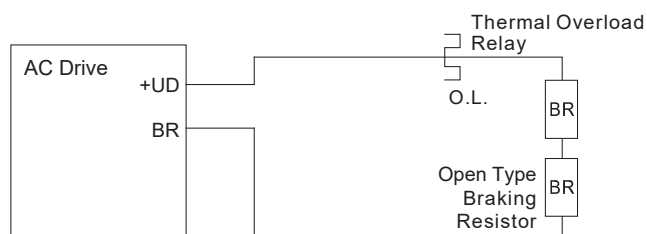
Brake Wiring

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.

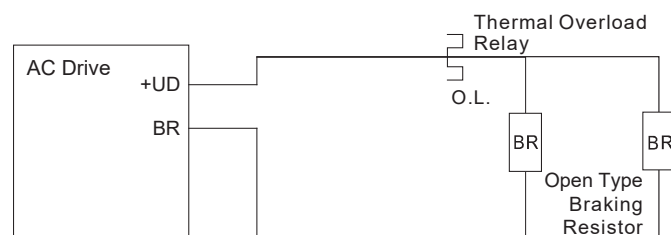
Drive + 1 Resistor or NEMA1 Resistor:



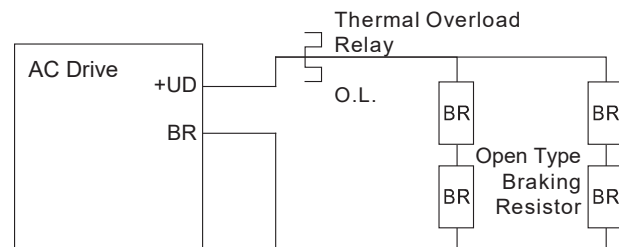
Drive + 2 Series Resistors:



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

Table continued on next page

* All specs for the LR, LR2, and VTF can be found at 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									
14990863	CFW500A01P6B2DB66DSG2	1-phase or 3-phase / 230VAC	0.25	1.6	3-phase / 230VAC	LR2-20P2-1PH	LR2-20P2	LR2-20P2	N/A
14991103	CFW500A02P6B2DB66DSG2		0.5	2.6		LR2-20P5-1PH or LR2-20P5	LR2-20P5	LR2-20P5	VTF-246-CFG
14991753	CFW500A04P3B2DB66DSG2		1	4.3		LR2-21P0-1PH or LR2-20P7	LR2-21P0	LR2-21P0	VTF-24-FH
14938005	CFW500A07P3B2DB66DSG2		2	7.3		LR-22P0-1PH or LR-25P0	LR2-22P0	LR2-22P0	VTF-246-GJJ
14938047	CFW500A10P0B2DB66DSG2		3	10		LR-23P0-1PH or LR-25P0	LR-23P0	LR-23P0	VTF-246-HKL
14938113	CFW500A16P0T2DB66DSG2	3-phase / 230VAC	5.0	16	3-phase / 230VAC	N/A	LR-25P0	LR-25P0	VTF-24-JL
14975838	CFW500B24P0T2DB66DSG2		7.5	24			LR-27P5	LR-27P5	VTF-246-KMN
14938655	CFW500B28P0T2DB66DSG2		10.0	28			LR-2010	LR-2010	VTF-246-LPQ
14991953	CFW500A01P0T4DB66DSG2	3-phase / 480VAC	0.3	1	3-phase / 480VAC	N/A	LR2-40P3	LR2-40P3	N/A
14992148	CFW500A01P6T4DB66DSG2		0.5	1.6			LR2-40P5	LR2-40P5	N/A
14976517	CFW500A02P6T4DB66DSG2		1.0	2.6			LR2-41P0	LR2-41P0	VTF-246-CFG
14976809	CFW500A04P3T4DB66DSG2		2.0	4.3			LR2-42P0	LR2-42P0	VTF-246-DGH
14977065	CFW500A06P5T4DB66DSG2		3.0	6.5			LR2-44P0	LR2-44P0	VTF-24-FH
14977266	CFW500A10P0T4DB66DSG2		5.0	10			LR2-45P0	LR2-45P0	VTF-246-GJJ
14977397	CFW500B14P0T4DB66DSG2		7.5	14			LR-4010	LR-4010	VTF-24-JL
14977556	CFW500B16P0T4DB66DSG2		10.0	14			LR-4010	LR-4010	VTF-24-JL
14978365	CFW500B24P0T4DB66DSG2		15.0	24			LR-4015	LR-4015	VTF-246-KMN
14978573	CFW500B31P0T4DB66DSG2		20.0	31			LR-4020	LR-4020	VTF-246-LPQ
14989840	CFW500A01P6B2DB66G2	1-phase or 3-phase / 230VAC	0.25	1.6	3-phase / 230VAC	LR2-20P2-1PH	LR2-20P2	LR2-20P2	N/A
14990985	CFW500A02P6B2DB66G2		0.5	2.6		LR2-20P5-1PH or LR2-20P5	LR2-20P5	LR2-20P5	VTF-246-CFG
14991517	CFW500A04P3B2DB66G2		1	4.3		LR2-21P0-1PH or LR2-20P7	LR2-21P0	LR2-21P0	VTF-24-FH
14937890	CFW500A07P3B2DB66G2		2	7.3		LR-22P0-1PH or LR-25P0	LR2-22P0	LR2-22P0	VTF-246-GJJ
14938041	CFW500A10P0B2DB66G2		3	10		LR-23P0-1PH or LR-25P0	LR-23P0	LR-23P0	VTF-246-HKL
14938111	CFW500A16P0T2DB66G2	3-phase / 230VAC	5.0	16	3-phase / 230VAC	N/A	LR-25P0	LR-25P0	VTF-24-JL
14975783	CFW500B24P0T2DB66G2		7.5	24			LR-27P5	LR-27P5	VTF-246-KMN
14938547	CFW500B28P0T2DB66G2		10.0	28			LR-2010	LR-2010	VTF-246-LPQ
14991899	CFW500A01P0T4DB66G2	3-phase / 480VAC	0.3	1	3-phase / 480VAC	N/A	LR2-40P3	LR2-40P3	N/A
14992113	CFW500A01P6T4DB66G2		0.5	1.6			LR2-40P5	LR2-40P5	N/A
14975888	CFW500A02P6T4DB66G2		1.0	2.6			LR2-41P0	LR2-41P0	VTF-246-CFG
14976683	CFW500A04P3T4DB66G2		2.0	4.3			LR2-42P0	LR2-42P0	VTF-246-DGH
14976814	CFW500A06P5T4DB66G2		3.0	6.5			LR2-44P0	LR2-44P0	VTF-246-GJJ
14977261	CFW500A10P0T4DB66G2		5.0	10			LR2-45P0	LR2-45P0	VTF-246-HKL
14977391	CFW500B14P0T4DB66G2		7.5	14			LR-4010	LR-4010	VTF-24-JL
14977552	CFW500B16P0T4DB66G2		10.0	14			LR-4010	LR-4010	VTF-24-JL
14977629	CFW500B24P0T4DB66G2		15.0	24			LR-4015	LR-4015	VTF-246-KMN
14978548	CFW500B31P0T4DB66G2		20.0	31			LR-4020	LR-4020	VTF-246-LPQ

* All specs for the LR, LR2, and VTF can be found at www.automationdirect.com.



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-IOS 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 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: • CFW-WPS Software	



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>

