

# WEG CFW500 AC Drives – Introduction



## Overview

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

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

## Features

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

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

### Environmental

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

### Safety

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

### Convenience

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

## Accessories

### Keypads

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

### Communication Modules

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

### Expansion Modules

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

## Typical Applications

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

## WEG CFW500 Series AC Drives

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

✓ = IP20 model available

✗ = IP66 models available

★ = IP20 and IP66 models available



# CFW500 AC Drives – Selection

## Selecting the Proper Drive Rating

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



# CFW500 AC Drives – Selection

## Selecting the Proper Drive Rating, continued

### Determine Maximum Enclosure Internal Temperature

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

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

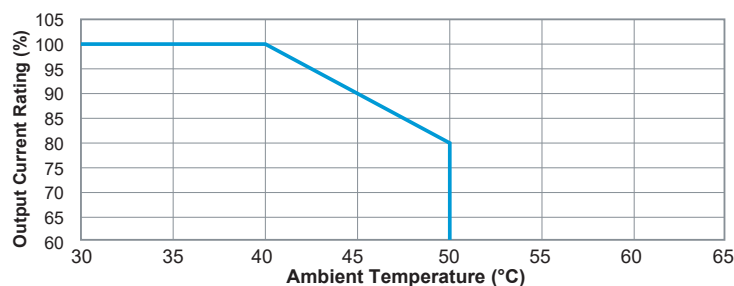
**For IP20, Frame A to Frame E (side-by-side mounting), NEMA1 Kit, or IP66 Drives, Derate Output Current Based on Temperature Above 104°F [40°C]**

#### Drive Derating by Temperature

##### Derating

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

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



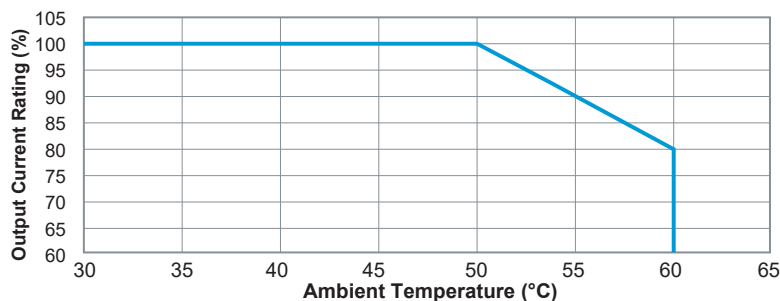
**For IP20, Frame A to Frame E (with minimum clearance), Derate Output Current Based on Temperature Above 122°F [50°C]**

#### Drive Derating by Temperature

##### Derating

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

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





# CFW500 AC Drives – Selection

## Selecting the Proper Drive Rating, continued

### Determine Maximum Enclosure Internal Temperature

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

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

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

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

### Drive Derating by Temperature

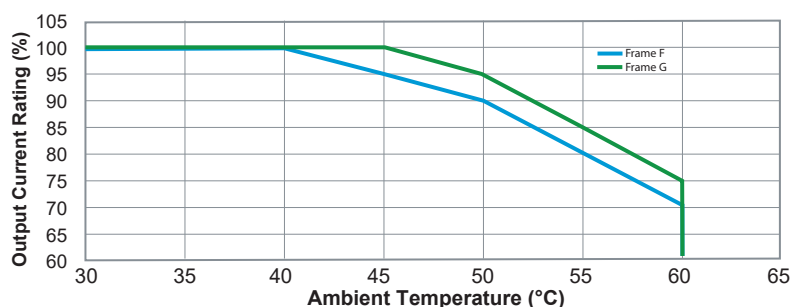
#### Derating

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

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

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

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





# CFW500 AC Drives – Selection

## Selecting the Proper Drive Rating, continued

| Derate Output Current Based on Carrier Frequency (if necessary)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |       |         |         |          |          |         |      |          |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------|---------|---------|----------|----------|---------|------|----------|--------|
| Carrier Frequency Effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |       |         |         |          |          |         |      |          |        |
| AC Drives rectify the incoming 50 or 60Hz line power resulting in DC power at 0Hz. The resulting DC power is then pulse-width modulated and supplied to the motor by the drive's power electronics. IGBTs invert the DC power, simulating a sine wave at the desired frequency (that's what allows variable speed in AC induction motors). The speed at which the IGBTs are turned ON and OFF is called the Carrier Frequency. In WEG CFW500 drives, the Carrier Frequency can range from 2kHz to 15kHz. Though Carrier Frequency can be adjusted, there are trade-offs between high Carrier Frequencies and low Carrier Frequencies. |                     |       |         |         |          |          |         |      |          |        |
| Benefits of Higher Carrier Frequencies:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |       |         |         |          |          |         |      |          |        |
| <ul style="list-style-type: none"><li>• Better efficiency (lower harmonic losses) in the motor</li><li>• Lower audible noise</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |       |         |         |          |          |         |      |          |        |
| Benefits of Lower Carrier Frequencies:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |       |         |         |          |          |         |      |          |        |
| <ul style="list-style-type: none"><li>• Better efficiency in the drive</li><li>• Lower EMI (electrical noise)</li><li>• Reduced reflective wave peak voltage</li></ul> <p>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 (&gt;20 or 30hp) should not have Carrier Frequencies set higher than 6kHz. Heavy duty applications typically run around 2–4 kHz.</p>                                                                                                             |                     |       |         |         |          |          |         |      |          |        |
| Derating Tables                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |       |         |         |          |          |         |      |          |        |
| The table below shows the derating values for each model of WEG CFW500 drive.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |       |         |         |          |          |         |      |          |        |
| Carrier Frequency Derating, IP20 Drives, A–E Frame                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |       |         |         |          |          |         |      |          |        |
| WEG MAT #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Model #             | Frame | 2.5 kHz | 5.0 kHz | 10.0 kHz | 15.0 kHz |         |      |          |        |
| <a href="#">15570800</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500A01P6B2NB20G2 | A     | 1.6 A   | 1.6 A   | 1.6 A    | 1.6 A    |         |      |          |        |
| <a href="#">15571879</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500A02P6B2NB20G2 | A     | 2.6 A   | 2.6 A   | 2.6 A    | 2.6 A    |         |      |          |        |
| <a href="#">15571881</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500A04P3B2NB20G2 | A     | 4.3 A   | 4.3 A   | 3.5 A    | 2.8 A    |         |      |          |        |
| <a href="#">15572625</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500A07P0T2NB20G2 | A     | 7A      | 7A      | 5.8 A    | 4.9 A    |         |      |          |        |
| <a href="#">15572689</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500A09P6T2NB20G2 | A     | 9.6 A   | 9.6 A   | 8A       | 6.7 A    |         |      |          |        |
| <a href="#">15574655</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500B07P3B2DB20G2 | B     | 7.3 A   | 7.3 A   | 6.1 A    | 5.1 A    |         |      |          |        |
| <a href="#">15575067</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500B10P0B2DB20G2 | B     | 10A     | 10A     | 8A       | 6.5 A    |         |      |          |        |
| <a href="#">15575202</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500B16P0T2DB20G2 | B     | 16A     | 16A     | 12.7 A   | 10.1 A   |         |      |          |        |
| <a href="#">15575701</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500C24P0T2DB20G2 | C     | 24A     | 25A     | 19A      | 16A      |         |      |          |        |
| <a href="#">15575716</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500D28P0T2DB20G2 | D     | 28A     | 28A     | 22A      | 18A      |         |      |          |        |
| <a href="#">15576540</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500D47P0T2DB20G2 | D     | 47A     | 47A     | 36A      | 30A      |         |      |          |        |
| <a href="#">15577077</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500E56P0T2DB20G2 | E     | 56A     | 56A     | 43A      | 33A      |         |      |          |        |
| <a href="#">15572819</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500A01P0T4NB20G2 | A     | 1A      | 1A      | 1A       | 1A       |         |      |          |        |
| <a href="#">15572908</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500A01P6T4NB20G2 | A     | 1.6 A   | 1.6 A   | 1.6 A    | 1.6 A    |         |      |          |        |
| <a href="#">15573714</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500A02P6T4NB20G2 | A     | 2.6 A   | 2.6 A   | 2.6 A    | 2A       |         |      |          |        |
| <a href="#">15573819</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500A04P3T4NB20G2 | A     | 4.3 A   | 4.3 A   | 2.9 A    | 2A       |         |      |          |        |
| <a href="#">15573823</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500A06P1T4NB20G2 | A     | 6.1 A   | 6.1 A   | 4.3 A    | 3.1 A    |         |      |          |        |
| <a href="#">15575568</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500B02P6T4DB20G2 | B     | 2.6 A   | 2.6 A   | 2.6 A    | 2A       |         |      |          |        |
| <a href="#">15575577</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500B04P3T4DB20G2 | B     | 4.3 A   | 4.3 A   | 2.9 A    | 2A       |         |      |          |        |
| <a href="#">15575665</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500B06P5T4DB20G2 | B     | 6.5 A   | 6.5 A   | 4.5 A    | 3.3 A    |         |      |          |        |
| <a href="#">15575699</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500B10P0T4DB20G2 | B     | 10A     | 10A     | 6.5 A    | 4.3 A    |         |      |          |        |
| <a href="#">15575707</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500C14P0T4DB20G2 | C     | 14A     | 14A     | 10A      | 7A       |         |      |          |        |
| <a href="#">15575711</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500C16P0T4DB20G2 | C     | 16A     | 16A     | 10A      | 7A       |         |      |          |        |
| <a href="#">15576919</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500D24P0T4DB20G2 | D     | 24A     | 24A     | 15A      | 12A      |         |      |          |        |
| <a href="#">15577021</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500D31P0T4DB20G2 | D     | 31A     | 31A     | 16A      | 13A      |         |      |          |        |
| <a href="#">15577211</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500E39P0T4DB20G2 | E     | 39A     | 39A     | 30A      | 19A      |         |      |          |        |
| <a href="#">15577452</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500E49P0T4DB20G2 | E     | 49A     | 49A     | 30A      | 20A      |         |      |          |        |
| Carrier Frequency Derating, IP20 Drives, F–G Frame                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |       |         |         |          |          |         |      |          |        |
| WEG MAT #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Model #             | Frame | 2.5 kHz |         | 4.0 kHz  |          | 5.0 kHz |      | 10.0 kHz |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |       | ND      | HD      | ND       | HD       | ND      | HD   | ND       | HD     |
| <a href="#">15342437</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500F77P0T2DB20G2 | F     | 77A     | 64A     | 77A      | 64A      | –       | –    | 42.3 A   | 36.6 A |
| <a href="#">15342760</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500F88P0T2DB20G2 | F     | 88A     | 75A     | 88A      | 75A      | –       | –    | 52.6 A   | 43.7 A |
| <a href="#">15342909</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500F105T2DB20G2  | F     | 105A    | 88A     | 88A      | 73A      | –       | –    | 52.6 A   | 43.7 A |
| <a href="#">15733937</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500F77P0T4DB20G2 | F     | 77A     | 61A     | 77A      | 61A      | –       | –    | 42.3 A   | 36.6 A |
| <a href="#">15734064</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500F88P0T4DB20G2 | F     | 88A     | 73A     | 88A      | 73A      | –       | –    | 52.6 A   | 43.7 A |
| <a href="#">15734119</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500F105T4DB20G2  | F     | 105A    | 88A     | 88A      | 73A      | –       | –    | 52.6 A   | 43.7 A |
| <a href="#">15448371</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500G0142T4DB20G2 | G     | 142A    | 115A    | –        | –        | 111A    | 90A  | –        | –      |
| <a href="#">15448372</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500G0180T4DB20G2 | G     | 180A    | 142A    | –        | –        | 140A    | 111A | –        | –      |
| <a href="#">15448373</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CFW500G0211T4DB20G2 | G     | 211A    | 180A    | –        | –        | 164A    | 140A | –        | –      |



# CFW500 AC Drives – Selection

## Selecting the Proper Drive Rating, continued

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



# CFW500 AC Drives – Selection

## WEG CFW500 Drive Model Selection Tables

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

| WEG CFW500 IP20 240VAC Drives Selection Specifications |                     |            |                                 |               |                         |                                |                         |                          |                       |                     |                       |                  |                 |              |                     |                     |                     |
|--------------------------------------------------------|---------------------|------------|---------------------------------|---------------|-------------------------|--------------------------------|-------------------------|--------------------------|-----------------------|---------------------|-----------------------|------------------|-----------------|--------------|---------------------|---------------------|---------------------|
| WEG MAT #                                              | Model #             | Price      | Applicable Motor <sup>1,2</sup> |               | Drive Output            |                                | Drive Input             |                          | Input Protection      |                     | Drive                 |                  | Dynamic Braking | Drawing Link |                     |                     |                     |
|                                                        |                     |            | Maximum Power                   |               | Nominal Phase / Voltage | Rated Current <sup>3</sup> (A) | Nominal Phase / Voltage | Nominal Phase / Voltage  | Rated Current (A)     | Circuit Breaker (A) | Fuse <sup>4</sup> (A) | Weight (kg) [lb] |                 |              | Frame Size          |                     |                     |
|                                                        |                     |            | (hp)                            | (kW)          |                         |                                |                         |                          |                       |                     |                       |                  |                 |              |                     |                     |                     |
| <a href="#">15570800</a>                               | CFW500A01P6B2NB20G2 | \$232.00   | 0.25                            | 0.18          | 3Ph/<br>230VAC          | 1.6                            | 3Ph/<br>230VAC          | 1Ph or<br>3Ph/<br>230VAC | 4.0/2.0 <sup>5</sup>  | 5.5/2.5             | 20                    | 0.8 [1.76]       | A               | N            | <a href="#">PDF</a> |                     |                     |
| <a href="#">15571879</a>                               | CFW500A02P6B2NB20G2 | \$238.00   | 0.50                            | 0.37          |                         | 2.6                            |                         |                          | 6.5/3.1 <sup>5</sup>  | 9.0/4.0             | 20                    | 0.8 [1.76]       |                 | N            | <a href="#">PDF</a> |                     |                     |
| <a href="#">15571881</a>                               | CFW500A04P3B2NB20G2 | \$258.00   | 1                               | 0.75          |                         | 4.3                            |                         |                          | 10.5/5.2 <sup>5</sup> | 14/6.3              | 25/20                 | 0.8 [1.76]       |                 | N            | <a href="#">PDF</a> |                     |                     |
| <a href="#">15574655</a>                               | CFW500B07P3B2DB20G2 | \$346.00   | 2                               | 1.50          |                         | 7.3                            |                         |                          | 17/8.6 <sup>5</sup>   | 25/12               | 40/20                 | 1.2 [2.65]       | B               | Y            | <a href="#">PDF</a> |                     |                     |
| <a href="#">15575067</a>                               | CFW500B10P0B2DB20G2 | \$403.00   | 3                               | 2.20          |                         | 10                             |                         |                          | 25/12 <sup>5</sup>    | 25/16               | 60/25                 | 1.2 [2.65]       |                 | Y            | <a href="#">PDF</a> |                     |                     |
| <a href="#">15572625</a>                               | CFW500A07P0T2NB20G2 | \$321.00   | 2                               | 1.50          |                         | 7                              |                         | 3Ph/<br>230VAC           | 3Ph/<br>230VAC        | 3Ph/<br>230VAC      | 8.5 <sup>5</sup>      | 10               | 20              | 0.8 [1.76]   | A                   | N                   | <a href="#">PDF</a> |
| <a href="#">15572689</a>                               | CFW500A09P6T2NB20G2 | \$394.00   | 3                               | 2.20          |                         | 9.6                            |                         |                          |                       |                     | 11.7 <sup>5</sup>     | 16               | 25              | 0.8 [1.76]   |                     | N                   | <a href="#">PDF</a> |
| <a href="#">15575202</a>                               | CFW500B16P0T2DB20G2 | \$430.00   | 5                               | 3.70          |                         | 16                             |                         |                          |                       |                     | 19.5 <sup>5</sup>     | 25               | 40              | 1.2 [2.65]   | B                   | Y                   | <a href="#">PDF</a> |
| <a href="#">15575701</a>                               | CFW500C24P0T2DB20G2 | \$728.00   | 7.5                             | 5.50          |                         | 24                             |                         |                          |                       |                     | 29 <sup>5</sup>       | 32               | 60              | 2.0 [4.4]    | C                   | Y                   | <a href="#">PDF</a> |
| <a href="#">15575716</a>                               | CFW500D28P0T2DB20G2 | \$907.00   | 10                              | 7.50          |                         | 28                             |                         |                          |                       |                     | 34.2                  | 40               | 60              | 4.3 [9.47]   | D                   | Y                   | <a href="#">PDF</a> |
| <a href="#">15576540</a>                               | CFW500D47P0T2DB20G2 | \$1,484.00 | 15                              | 11.00         |                         | 47                             |                         |                          |                       | 57.3                | 65                    | 60               | 4.3 [9.47]      | Y            |                     | <a href="#">PDF</a> |                     |
| <a href="#">15577077</a>                               | CFW500E56P0T2DB20G2 | \$1,724.00 | 20                              | 15.00         |                         | 56                             |                         |                          |                       | 68.32               | 80                    | 125              | 10 [22.05]      | E            | Y                   | <a href="#">PDF</a> |                     |
| <a href="#">15342437</a>                               | CFW500F77P0T2DB20G2 | \$2,117.00 | 20 (25-ND)                      | 15 (18.65-ND) |                         | 64 (77-ND)                     |                         |                          |                       | 61.44 (73.92-ND)    | 125                   | 125              | 26 [57.3]       | F            | Y                   | <a href="#">PDF</a> |                     |
| <a href="#">15342760</a>                               | CFW500F88P0T2DB20G2 | \$2,652.00 | 25 (30-ND)                      | 18.65 (22-ND) |                         | 75 (88-ND)                     |                         |                          |                       | 72 (84.48-ND)       | 150                   | 125              | 26 [57.3]       |              | Y                   | <a href="#">PDF</a> |                     |
| <a href="#">15342909</a>                               | CFW500F0105T2DB20G2 | \$3,596.00 | 30 (40-ND)                      | 22 (30-ND)    |                         | 88 (105-ND)                    |                         |                          |                       | 84.48 (100.8-ND)    | 200                   | 125              | 26 [57.3]       |              | Y                   | <a href="#">PDF</a> |                     |

1) For use with three-phase motors only.

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

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

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

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



# CFW500 AC Drives – Specifications

## WEG CFW500 Drive Model Selection Tables, continued

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

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

1) For use with three-phase motors only.

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

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

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

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



# CFW500 AC Drives – Specifications

## WEG CFW500 Drive Model Selection Tables, continued

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

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

1) For use with three-phase motors only.

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

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

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

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



# CFW500 AC Drives – Specifications

## WEG CFW500 Drive Model Selection Tables, continued

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



# CFW500 AC Drives – Specifications

## WEG CFW500 Drive Model Selection Tables, continued

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

### DRIVE SETUP AND PROGRAMMING NOTE:



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



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

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

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

### CFW500 IP20 Loss Ratings and Temperatures

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

Continued on next page

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



# CFW500 AC Drives – Specifications

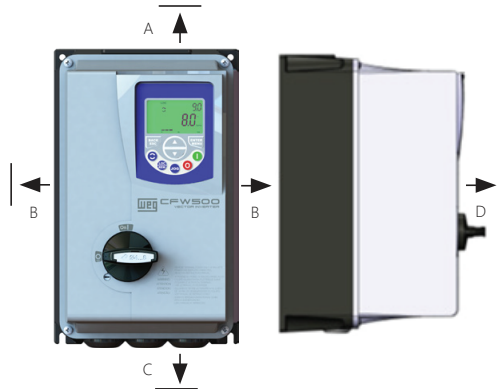
## Minimum Clearances and Air Flow for WEG CFW500 IP20 Series Drives

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

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

# WEG CFW500 AC Drives – Specifications

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



IP66 minimum free spaces for ventilation

### CFW500 IP66 Minimum Mounting Clearances\*

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

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

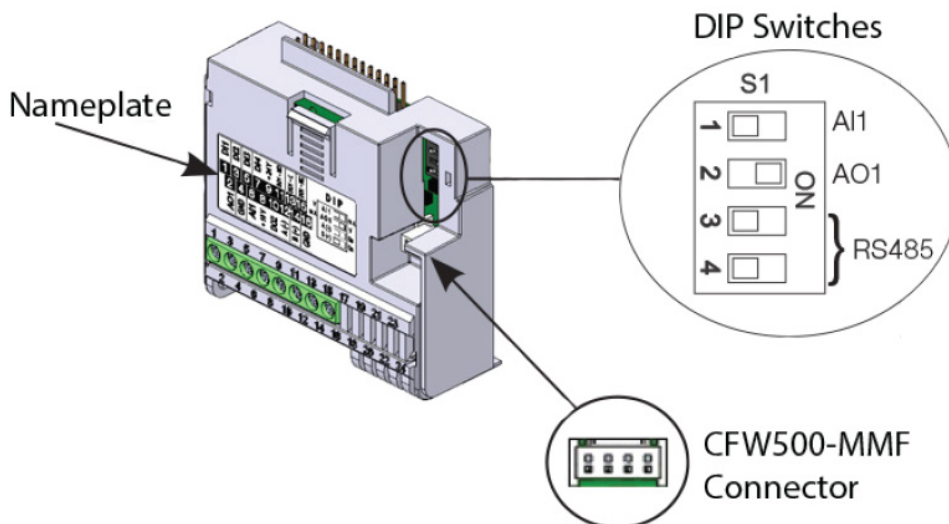


# CFW500 Drives – Control Connections

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

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

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



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



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

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

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

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

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

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



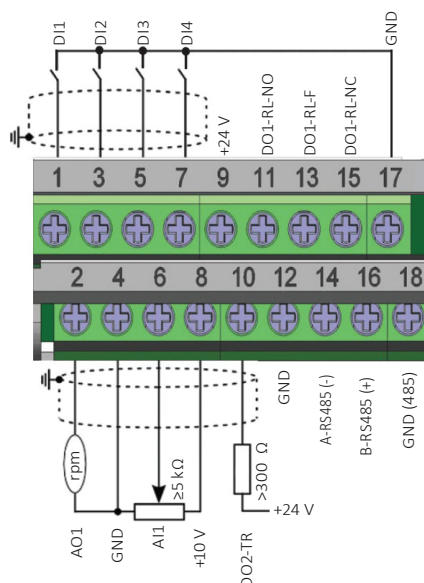
# CFW500 Drives– Control Connections

## Control Connections

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



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



### CFW500-IOS Connectors

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

### CFW500-IOS Connection Specifications

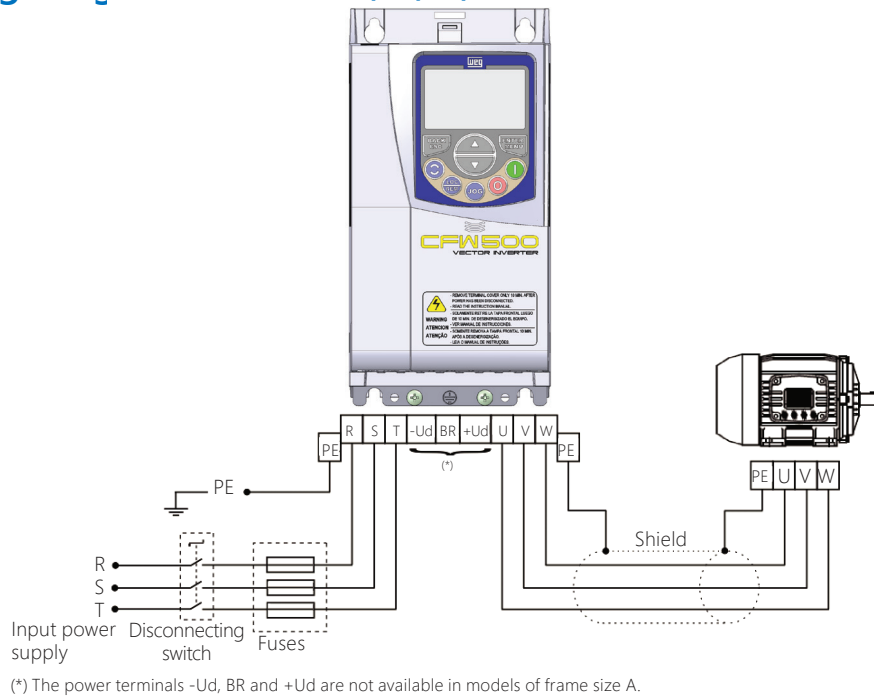
| Type          | Terminal                             | Description                                                                                                                                                                                                                                        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

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

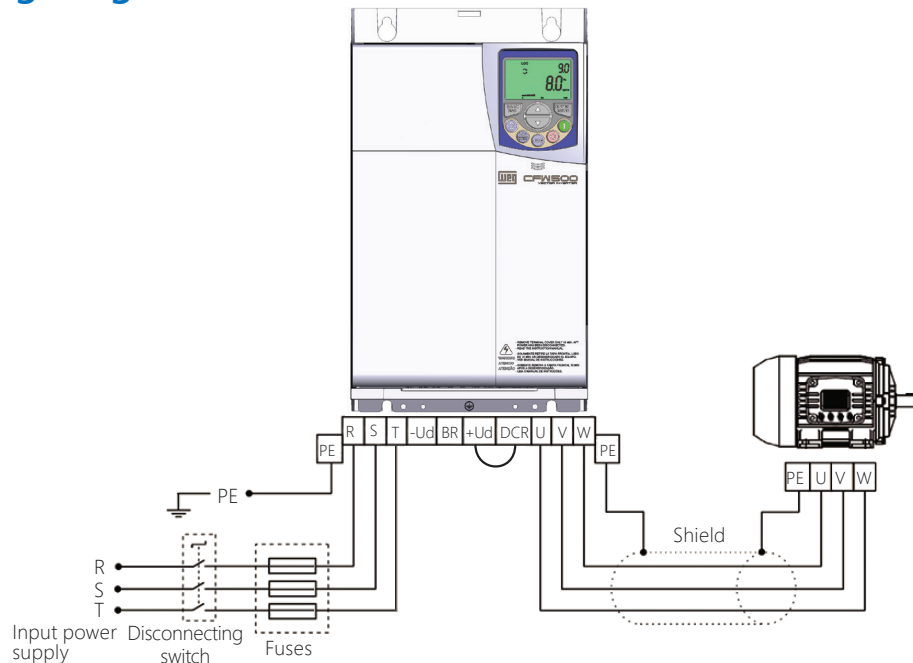


# CFW500 Drives – Basic Wiring Diagrams

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



## Circuit Wiring Diagram: Frame D and E Models



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



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

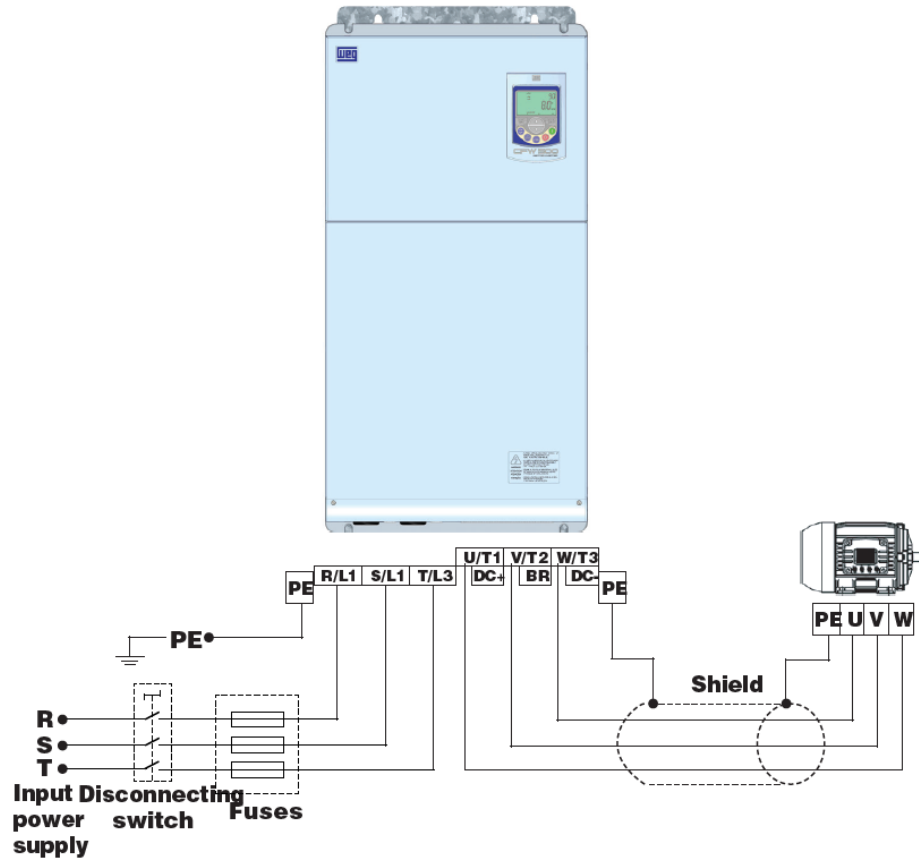


**Note:** The input power supply voltage must be compatible with the drive rated voltage. Power factor correction capacitors are not needed at the drive input (L/L1, N/L2, L3, or R, S, T) and must not be installed at the output (U, V, W).



# CFW500 Drives – Basic Wiring Diagrams

## Circuit Wiring Diagram: Frame G Models



(c) Frame size G



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



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



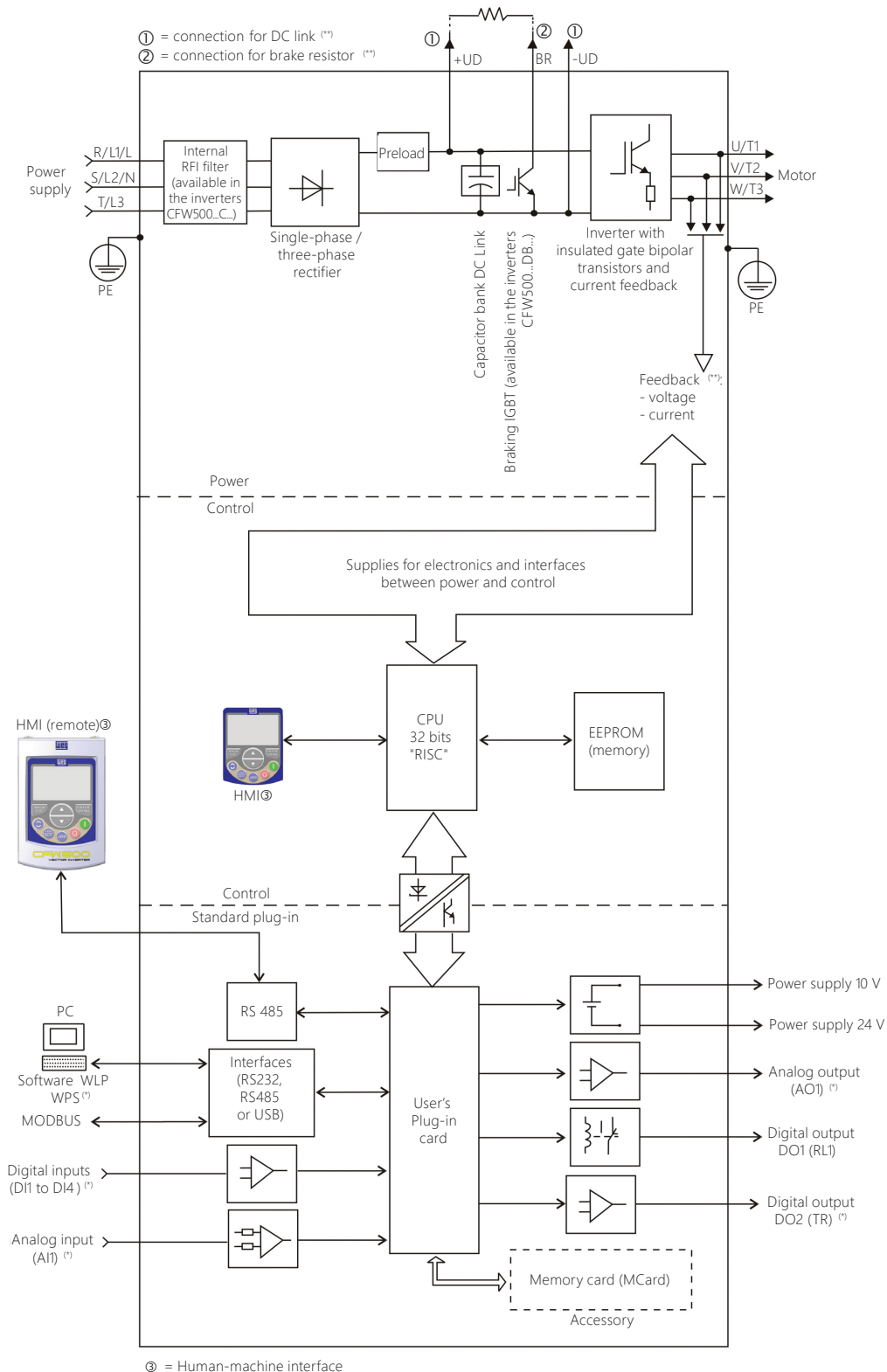
**Note:** The input power supply voltage must be compatible with the drive rated voltage. Power factor correction capacitors are not needed at the drive input (L/L1, N/L2, L3, or R, S, T) and must not be installed at the output (U, V, W).



# CFW500 Drives – Basic Wiring Diagrams

## Control Wiring Diagram: Full I/O

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



(\*) The number of analog/digital inputs/outputs, as well as other resources, may vary according to the plug-in module used. For further information, refer to the guide supplied with the accessory.

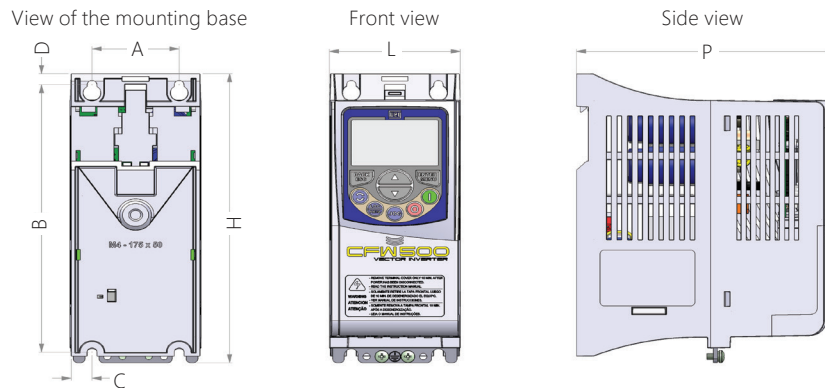
(\*\*) Not available in frame size A.

# WEG CFW500 AC Drives – Drive Mounting

## WEG CFW500 IP20 Drive Positioning and Mounting

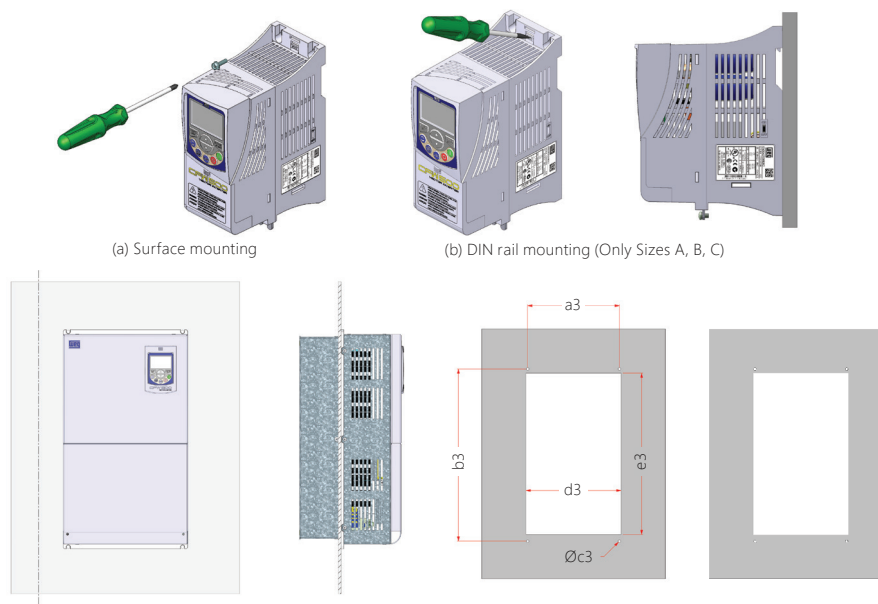
Mount the drive in the upright position on a flat and vertical service. Install and tighten the screws per the maximum torque values in the table below.

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



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

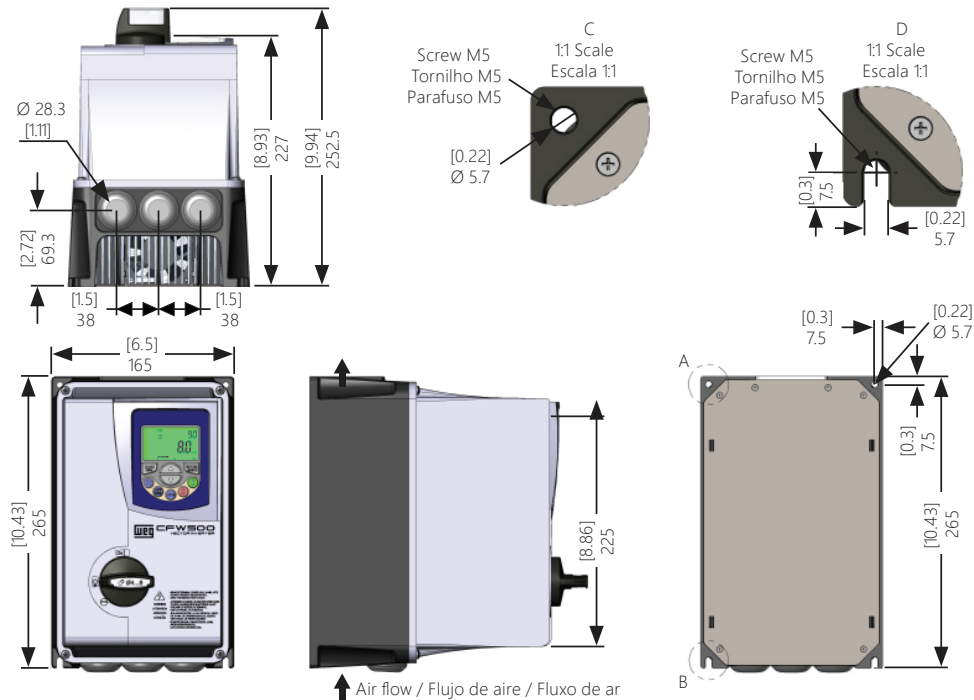


Figure A.1: Dimensions of the CFW500 IP66 frame size A  
 Figura A.1: Dimensiones CFW500 IP66 tamaño A  
 Figura A.1: Dimensões CFW500 IP66 mecânica A

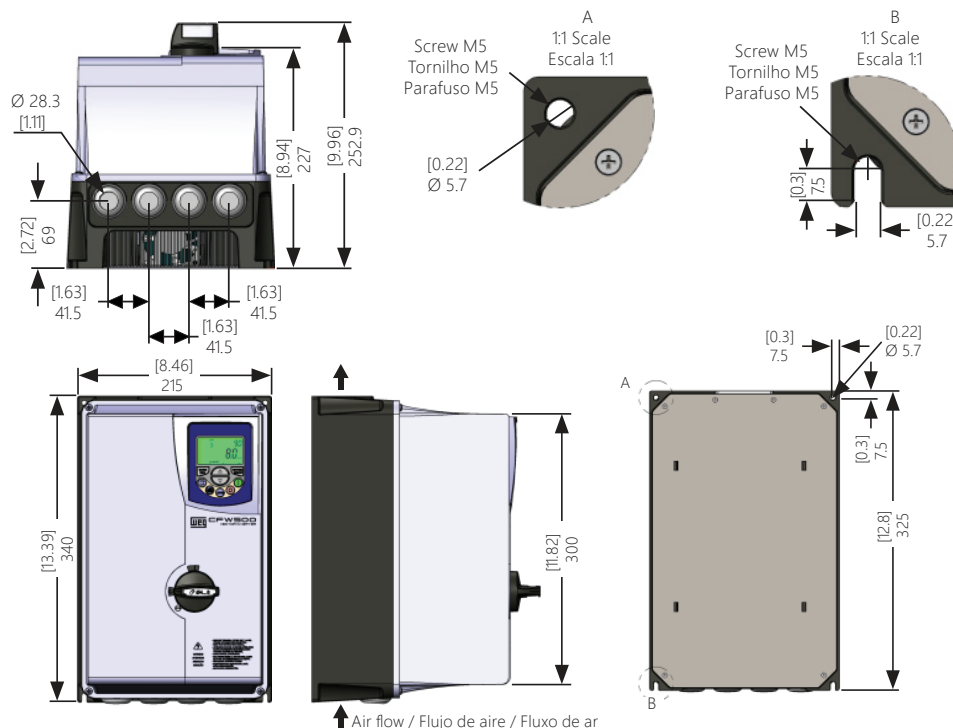


Figure A.2: Dimensions of the CFW500 IP66 frame size B  
 Figura A.2: Dimensiones CFW500 IP66 tamaño B  
 Figura A.2: Dimensões CFW500 IP66 mecânica B



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

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

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

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

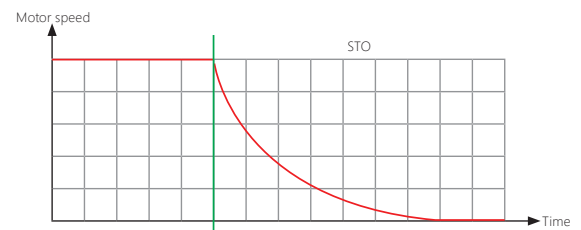


Figure 1.1: STO behavior

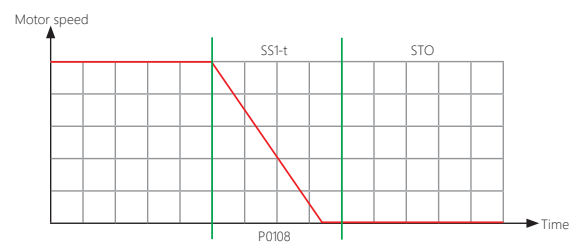


Figure 1.2: SS1-t behavior

# WEG CFW500 AC Drives – Accessories

## WEG CFW500 Optional Input/Output Accessories

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

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

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

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

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



14741859



14968050



12619000

# WEG CFW500 AC Drives – Accessories

## WEG CFW500 Optional Communication Modules

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

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

The following communication modules are available for WEG CFW500 drives:

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

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

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



14742001



14742005



12892814



# CFW500 AC Drives – Accessories

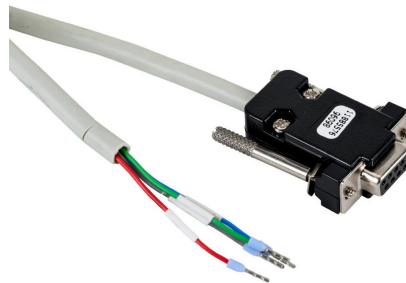
## WEG CFW500 HMI Accessories and Cables

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

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



11833992



1233 series cable



11636485



15578295

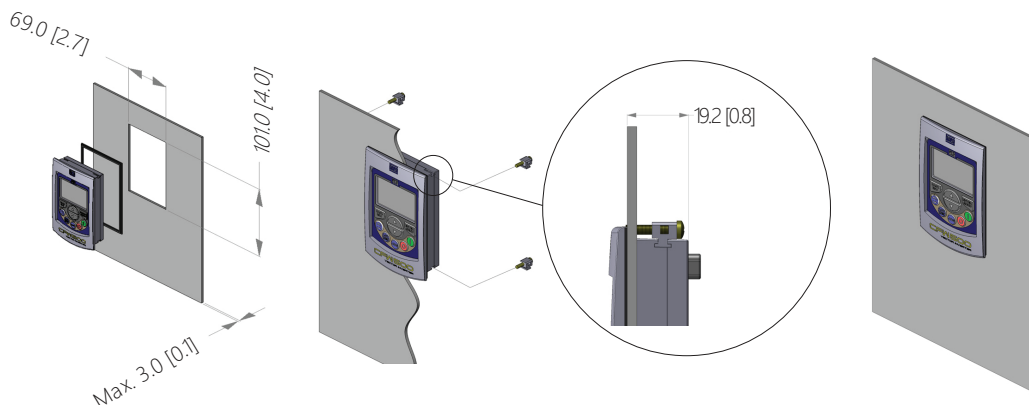


15578297

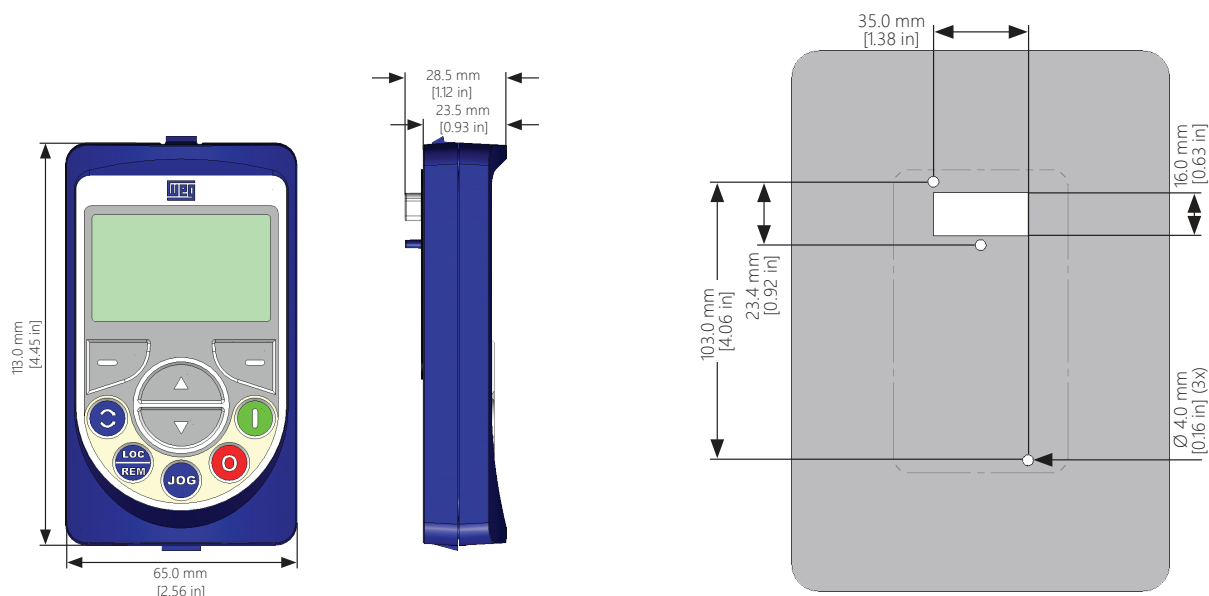
# WEG CFW500 AC Drives – Accessories

## WEG CFW500 HMI Accessories Mounting and Installation

### Standard Remote Keypad Mounting



### Advanced Remote Keypad Mounting



### Flash Module Mounting



# WEG CFW500 AC Drives – Accessories

## WEG CFW500 Optional NEMA1 Frame Kits

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



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

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





# CFW500 AC Drives – Accessories

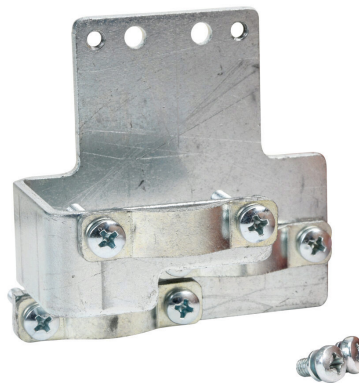
## WEG CFW500 Optional Cable Clamps

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



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

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



CFW500 Cable Clamp



# CFW500 AC Drives – Accessories

## WEG CFW500 Replacement Cooling Fans

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

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



**Frame A  
Replacement Fan**



**Frame B and C  
Replacement Fan**



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



**Frame E  
Replacement Fan**



# CFW500 AC Drives – Accessories

## WEG CFW500 Replacement Cooling Fans, continued

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



**Frame F  
Replacement Fan**



**Frame G  
Replacement Fan**



# CFW500 Compatible Accessories

## Fuses and Circuit Breakers for WEG CFW500 AC Drives

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

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

Table continued on next page

1 - Per UL standard

2 - Non UL standard

3 - Not available at AutomationDirect



# CFW500 Compatible Accessories

## Fuses and Circuit Breakers, *continued*

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

1 - Per UL standard

2 - Non UL standard



# CFW500 Compatible Accessories

## Fuses and Circuit Breakers, *continued*

| WEG CFW500 AC Drive Circuit Breaker Component Selection |                     |                                     |                 |                                                                |                            |                          |                                 |
|---------------------------------------------------------|---------------------|-------------------------------------|-----------------|----------------------------------------------------------------|----------------------------|--------------------------|---------------------------------|
| WEG MAT #                                               | Model #             | Input Voltage                       | Max Current (A) | WEG Circuit Breaker                                            | WEG Current Limiter        | WEG Power Terminal Block | WEG Short Circuit Alarm Contact |
| IP20 Drives                                             |                     |                                     |                 |                                                                |                            |                          |                                 |
| <a href="#">15570800</a>                                | CFW500A01P6B2NB20G2 | 1-phase /<br>3-phase 230VAC<br>IP20 | 16              | <a href="#">MPW40-3-D063</a> /<br><a href="#">MPW40-3-D025</a> | <a href="#">CLT32MPW40</a> | <a href="#">LST25</a>    | <a href="#">TSB</a>             |
| <a href="#">15571879</a>                                | CFW500A02P6B2NB20G2 |                                     | 16              | <a href="#">MPW40-3-U010</a> /<br><a href="#">MPW40-3-U004</a> |                            |                          |                                 |
| <a href="#">15571881</a>                                | CFW500A04P3B2NB20G2 |                                     | 16              | <a href="#">MPW40-3-U016</a> /<br><a href="#">MPW40-3-D063</a> |                            |                          |                                 |
| <a href="#">15574655</a>                                | CFW500B07P3B2DB20G2 |                                     | 25              | <a href="#">MPW40-3-U025</a> /<br><a href="#">MPW40-3-U016</a> |                            |                          |                                 |
| <a href="#">15575067</a>                                | CFW500B10P0B2DB20G2 |                                     | 25              | <a href="#">MPW40-3-U032</a> /<br><a href="#">MPW40-3-U016</a> |                            |                          |                                 |
| <a href="#">15572625</a>                                | CFW500A07P0T2NB20G2 | 3-phase 230VAC<br>IP20              | 16              | <a href="#">MPW40-3-U010</a>                                   | Any UL Listed CB           | N/A                      |                                 |
| <a href="#">15572689</a>                                | CFW500A09P6T2NB20G2 |                                     | 16              | <a href="#">MPW40-3-U016</a>                                   |                            |                          |                                 |
| <a href="#">15575202</a>                                | CFW500B16P0T2DB20G2 |                                     | 25              | <a href="#">MPW40-3-U025</a>                                   |                            |                          |                                 |
| <a href="#">15575701</a>                                | CFW500C24P0T2DB20G2 |                                     | 32              | <a href="#">MPW40-3-U032</a>                                   |                            |                          |                                 |
| <a href="#">15575716</a>                                | CFW500D28P0T2DB20G2 |                                     | 125             |                                                                |                            |                          |                                 |
| <a href="#">15576540</a>                                | CFW500D47P0T2DB20G2 |                                     | 125             |                                                                |                            |                          |                                 |
| <a href="#">15577077</a>                                | CFW500E56P0T2DB20G2 |                                     | 125             |                                                                |                            |                          |                                 |
| <a href="#">15342437</a>                                | CFW500F77P0T2DB20G2 |                                     | 225             |                                                                |                            |                          |                                 |
| <a href="#">15342760</a>                                | CFW500F88P0T2DB20G2 |                                     | 225             |                                                                |                            |                          |                                 |
| <a href="#">15342909</a>                                | CFW500F105T2DB20G2  |                                     | 225             |                                                                |                            |                          |                                 |
| <a href="#">15572819</a>                                | CFW500A01P0T4NB20G2 | 3-phase 460VAC<br>IP20              | 16              | <a href="#">MPW40-3-D016</a>                                   | <a href="#">CLT32MPW40</a> | <a href="#">LST25</a>    | <a href="#">TSB</a>             |
| <a href="#">15572908</a>                                | CFW500A01P6T4NB20G2 |                                     | 16              | <a href="#">MPW40-3-D025</a>                                   |                            |                          |                                 |
| <a href="#">15573714</a>                                | CFW500A02P6T4NB20G2 |                                     | 16              | <a href="#">MPW40-3-U004</a>                                   |                            |                          |                                 |
| <a href="#">15573819</a>                                | CFW500A04P3T4NB20G2 |                                     | 16              | <a href="#">MPW40-3-D063</a>                                   |                            |                          |                                 |
| <a href="#">15573823</a>                                | CFW500A06P1T4NB20G2 |                                     | 16              | <a href="#">MPW40-3-U010</a>                                   |                            |                          |                                 |
| <a href="#">15575568</a>                                | CFW500B02P6T4DB20G2 |                                     | 25              | <a href="#">MPW40-3-U004</a>                                   |                            |                          |                                 |
| <a href="#">15575577</a>                                | CFW500B04P3T4DB20G2 |                                     | 25              | <a href="#">MPW40-3-D063</a>                                   |                            |                          |                                 |
| <a href="#">15575665</a>                                | CFW500B06P5T4DB20G2 |                                     | 25              | <a href="#">MPW40-3-U010</a>                                   |                            |                          |                                 |
| <a href="#">15575699</a>                                | CFW500B10P0T4DB20G2 |                                     | 25              | <a href="#">MPW40-3-U016</a>                                   |                            |                          |                                 |
| <a href="#">15575707</a>                                | CFW500C14P0T4DB20G2 |                                     | 32              | <a href="#">MPW40-3-U020</a>                                   |                            |                          |                                 |
| <a href="#">15575711</a>                                | CFW500C16P0T4DB20G2 |                                     | 32              | <a href="#">MPW40-3-U032</a>                                   |                            |                          |                                 |
| <a href="#">15576919</a>                                | CFW500D24P0T4DB20G2 |                                     | 40              | Any UL Listed CB                                               | N/A                        |                          |                                 |
| <a href="#">15577021</a>                                | CFW500D31P0T4DB20G2 |                                     | 50              |                                                                |                            |                          |                                 |
| <a href="#">15577211</a>                                | CFW500E39P0T4DB20G2 |                                     | 50              |                                                                |                            |                          |                                 |
| <a href="#">15577452</a>                                | CFW500E49P0T4DB20G2 |                                     | 65              |                                                                |                            |                          |                                 |
| <a href="#">15733937</a>                                | CFW500F77P0T4DB20G2 |                                     | 100             |                                                                |                            |                          |                                 |
| <a href="#">15734064</a>                                | CFW500F88P0T4DB20G2 |                                     | 100             |                                                                |                            |                          |                                 |
| <a href="#">15734119</a>                                | CFW500F105T4DB20G2  |                                     | 125             |                                                                |                            |                          |                                 |
| <a href="#">15448371</a>                                | CFW500G0142T4DB20G2 |                                     | 175             |                                                                |                            |                          |                                 |
| <a href="#">15448372</a>                                | CFW500G0180T4DB20G2 |                                     | 225             |                                                                |                            |                          |                                 |
| <a href="#">15448373</a>                                | CFW500G0211T4DB20G2 |                                     | 250             |                                                                |                            |                          |                                 |

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# CFW500 Compatible Accessories

## Fuses and Circuit Breakers, *continued*

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



# CFW500 Compatible Accessories

## Braking Resistors for WEG CFW500 AC Drives

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

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

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                                                                | <a href="#">14992148</a> | A01P6T4DB66DS             | IP66D                         | 3                    | 1.6                  | 0.25             | 127                               | 6               | 4.6                                        | <a href="#">GS-BR-400W150</a>         | 1                               | 5.3                             | <a href="#">BR-N1-240W150</a>       | 1                            | 5.3                     |                              |
|                                                                     | <a href="#">14992113</a> | A01P6T4DB66               | IP66                          |                      |                      |                  |                                   |                 |                                            |                                       | 1                               |                                 |                                     | 1                            |                         |                              |
|                                                                     | <a href="#">14991953</a> | A01P0T4DB66DS             | IP66D                         |                      |                      |                  |                                   |                 |                                            |                                       | 1                               |                                 |                                     | 1                            |                         |                              |
|                                                                     | <a href="#">14991899</a> | A01P0T4DB66               | IP66                          | 1                    | 1                    |                  |                                   |                 |                                            |                                       |                                 |                                 |                                     |                              |                         |                              |
|                                                                     | <a href="#">15573714</a> | A02P6T4NB20               | IP20                          | 2.6                  | 1                    | 127              | 6                                 | 4.6             | No Dynamic Braking (These Models)          |                                       |                                 |                                 |                                     |                              |                         |                              |
|                                                                     | <a href="#">15575568</a> | B02P6T4DB20               |                               |                      |                      |                  |                                   |                 | 1                                          | 5.3                                   | <a href="#">BR-N1-240W150</a>   | 1                               | 5.3                                 |                              |                         |                              |
|                                                                     | <a href="#">14976517</a> | A02P6T4DB66DS             |                               |                      |                      |                  |                                   |                 | IP66D                                      |                                       |                                 | 1                               |                                     | 1                            |                         |                              |
|                                                                     | <a href="#">14975888</a> | A02P6T4DB66               | IP66                          | 4.3                  | 2                    | 127              | 6                                 | 4.6             | No Dynamic Braking (These Models)          |                                       |                                 |                                 |                                     |                              |                         |                              |
|                                                                     | <a href="#">15573819</a> | A04P3T4NB20               | <a href="#">GS-BR-400W150</a> |                      |                      |                  |                                   |                 | 1                                          | 5.3                                   | <a href="#">BR-N1-240W150</a>   | 1                               | 5.3                                 |                              |                         |                              |
|                                                                     | <a href="#">15575577</a> | B04P3T4DB20               |                               |                      |                      |                  |                                   |                 | IP20                                       |                                       |                                 | 1                               |                                     |                              |                         |                              |
|                                                                     | <a href="#">14976809</a> | A04P3T4DB66DS             | IP66D                         | 6.1                  | 3                    | 100              | 8                                 | 6.4             | No Dynamic Braking (These Models)          |                                       |                                 |                                 |                                     |                              |                         |                              |
|                                                                     | <a href="#">14976683</a> | A04P3T4DB66               | IP66                          |                      |                      |                  |                                   |                 | <a href="#">GS-BR-300W250</a>              | 2P                                    | 6.3                             | <a href="#">BR-N1-500W200</a>   | 1                                   | 4.0                          |                         |                              |
|                                                                     | <a href="#">15573823</a> | A06P1T4NB20               | —                             |                      |                      |                  |                                   |                 |                                            | 2P                                    |                                 |                                 | 1                                   |                              |                         |                              |
|                                                                     | <a href="#">15575665</a> | B06P5T4DB20               | IP20                          | 10                   | 5                    | 47               | 16                                | 12              | <a href="#">GS-BR-1K0W075</a>              | 2P                                    | 10.5                            | <a href="#">BR-N1-720W85</a>    | 1                                   | 9.3                          |                         |                              |
|                                                                     | <a href="#">14977065</a> | A06P5T4DB66DS             | IP66D                         |                      |                      |                  |                                   |                 |                                            | 1                                     |                                 |                                 | 1                                   |                              |                         |                              |
|                                                                     | <a href="#">14976814</a> | A06P5T4DB66               | IP66                          |                      |                      |                  |                                   |                 |                                            | 1                                     |                                 |                                 | 1                                   |                              |                         |                              |
|                                                                     | <a href="#">15575699</a> | B10P0T4DB20               | IP20                          | 14                   | 7.5                  | 33               | 24                                | 19              | <a href="#">GS-BR-1K5W043</a>              | 1                                     | 18.4                            | <a href="#">BR-N1-720W85</a>    | 1                                   | 9.3                          |                         |                              |
|                                                                     | <a href="#">14977266</a> | A10P0T4DB66DS             | IP66D                         |                      |                      |                  |                                   |                 |                                            | 1                                     |                                 |                                 | 1                                   |                              |                         |                              |
|                                                                     | <a href="#">14977261</a> | A10P0T4DB66               | IP66                          |                      | 1                    |                  |                                   |                 |                                            | 1                                     |                                 |                                 |                                     |                              |                         |                              |
|                                                                     | <a href="#">15575707</a> | C14P0T4DB20               | IP20                          | 10                   | 15                   | 22               | 34                                | 25.4            |                                            | 2P                                    |                                 | 18.4                            | <a href="#">BR-N1-1K2W50</a>        | 1                            | 15.8                    |                              |
|                                                                     | <a href="#">14977397</a> | B14P0T4DB66DS             | IP66D                         |                      |                      |                  |                                   |                 |                                            |                                       |                                 |                                 |                                     | 1                            |                         | 1                            |
|                                                                     | <a href="#">14977391</a> | B14P0T4DB66               | IP66                          |                      |                      |                  |                                   |                 |                                            |                                       |                                 |                                 |                                     | 1                            |                         | 1                            |
|                                                                     | <a href="#">16675711</a> | C16P0T4DB20               | IP20                          | 31                   | 20                   | 18               | 48                                | 41.5            | <a href="#">GS-BR-1K0W020</a>              | 1                                     | 39.5                            | <a href="#">BR-N1-1K5W40</a>    | 1                                   | 19.8                         |                         |                              |
|                                                                     | <a href="#">14977556</a> | B16P0T4DB66DS             | IP66D                         |                      |                      |                  |                                   |                 |                                            | 2S2P                                  |                                 |                                 | 1                                   |                              |                         |                              |
|                                                                     | <a href="#">14977552</a> | B16P0T4DB66               | IP66                          |                      |                      |                  |                                   |                 |                                            | 2S2P                                  |                                 |                                 | 1                                   |                              |                         |                              |
|                                                                     | <a href="#">15576919</a> | D24P0T4DB20               | IP20                          | 39                   | 25                   | 8.6              | 78                                | 52.3            |                                            | 2S2P                                  |                                 | 60.8                            | 60.8                                | <a href="#">BR-N1-1K7W30</a> | 1                       | 26.3                         |
|                                                                     | <a href="#">14978365</a> | B24P0T4DB66DS             | IP66D                         |                      |                      |                  |                                   |                 | 2S2P                                       |                                       | 1                               |                                 |                                     |                              |                         |                              |
|                                                                     | <a href="#">14977629</a> | B24P0T4DB66               | IP66                          |                      |                      |                  |                                   |                 | 2P                                         |                                       | 1                               |                                 |                                     |                              |                         |                              |
|                                                                     | <a href="#">15577021</a> | D31P0T4DB20               | IP20                          | 49                   | 30                   | 8.6              | 78                                | 52.3            | 2S2P                                       | 65.8                                  | 65.8                            | <a href="#">BR-N1-1K5W40</a>    | 1                                   | 19.8                         |                         |                              |
|                                                                     | <a href="#">14978573</a> | B31P0T4DB66DS             | IP66D                         |                      |                      |                  |                                   |                 |                                            |                                       |                                 |                                 | 2S2P                                |                              | 1                       |                              |
|                                                                     | <a href="#">14978548</a> | B31P0T4DB66               | IP66                          |                      |                      |                  |                                   |                 |                                            |                                       |                                 |                                 | 2S2P                                |                              | 1                       |                              |
|                                                                     | <a href="#">15577211</a> | E39P0T4DB20               | IP20                          | 77                   | 40                   | 12               | 66.7                              | 53.4            | <a href="#">GS-BR-1K5W013GS-BR-1K5W013</a> | 2S2P                                  | 60.8                            | <a href="#">BR-N1-1K7W30</a>    | 1                                   | 26.3                         |                         |                              |
| <a href="#">15577452</a>                                            | E49P0T4DB20              | IP20                      | 2S2P                          |                      |                      |                  |                                   |                 |                                            |                                       |                                 |                                 | 1                                   |                              |                         |                              |
| <a href="#">15733937</a>                                            | F77P0T4DB20              | IP20                      | 105                           |                      |                      |                  |                                   |                 | 60                                         | 6.2                                   | 129                             | 103.2                           | <a href="#">GS-BR-1K5W012</a>       | 2S2P                         | 65.8                    | <a href="#">BR-N1-2K3W26</a> |
| <a href="#">15734064</a>                                            | F88P0T4DB20              | IP20                      |                               | 2S2P                 | 1                    |                  |                                   |                 |                                            |                                       |                                 |                                 |                                     |                              |                         |                              |
| <a href="#">15734119</a>                                            | F0105T4DB20              | IP20                      |                               | 142                  | 75                   | 3                | 267                               | 208             |                                            |                                       |                                 |                                 | Not offered                         | Not offered                  | Not offered             | <a href="#">BR-N1-3K6W20</a> |
| <a href="#">15448371</a>                                            | G0142T4DB20              | IP20                      | 2S2P                          |                      |                      |                  |                                   |                 | 1                                          |                                       |                                 |                                 |                                     |                              |                         |                              |
| <a href="#">15448372</a>                                            | G0180T4DB20              | IP20                      | 2S2P                          |                      |                      |                  |                                   |                 | 1                                          |                                       |                                 |                                 |                                     |                              |                         |                              |
| <a href="#">15448373</a>                                            | G0211T4DB20              | IP20                      | 211                           | 150                  | 2.2                  | 364              | 284                               |                 |                                            |                                       | <a href="#">BR-N1-10K8W04P3</a> | 1                               | 183.7                               |                              |                         |                              |
|                                                                     |                          |                           |                               |                      |                      |                  |                                   |                 |                                            |                                       |                                 | <a href="#">BR-N1-18K0W03P7</a> | 1                                   | 213.5                        |                         |                              |
| * 10% Duty Cycle with maximum ON (braking) time for 10 seconds.     |                          |                           |                               |                      |                      |                  |                                   |                 |                                            |                                       |                                 |                                 |                                     |                              |                         |                              |
| ** IP66D stands for IP66 with disconnect.                           |                          |                           |                               |                      |                      |                  |                                   |                 |                                            |                                       |                                 |                                 |                                     |                              |                         |                              |
| Note: Where noted in resistor quantity, S = series and P = parallel |                          |                           |                               |                      |                      |                  |                                   |                 |                                            |                                       |                                 |                                 |                                     |                              |                         |                              |

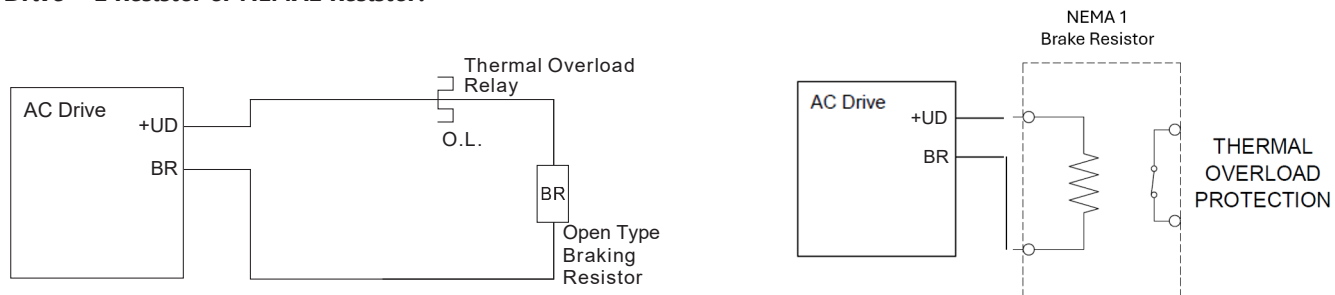


# CFW500 Compatible Accessories

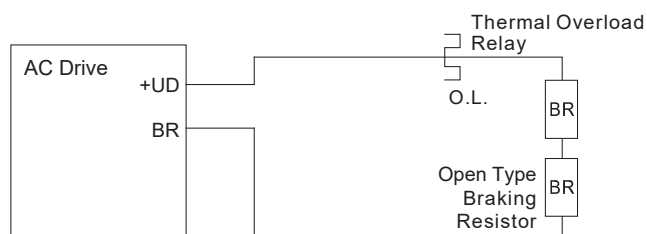
## Brake Wiring

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

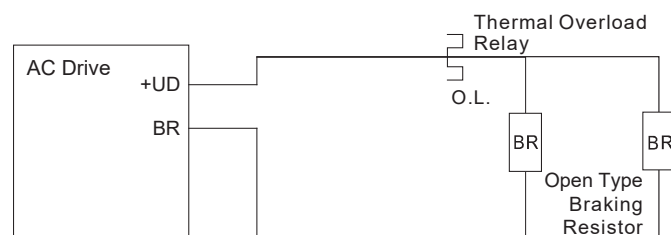
### Drive + 1 Resistor or NEMA1 Resistor:



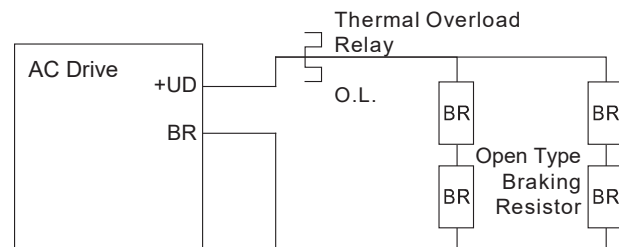
### Drive + 2 Series Resistors:



### Drive + 2 Parallel Resistors:



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





# CFW500 Compatible Accessories

## Line Reactors/Voltage Time Filters

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

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

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

Table continued on next page

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



# CFW500 Compatible Accessories

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

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

\* All specs for the LR, LR2, and VTF can be found at [www.automationdirect.com](http://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-IO module or optional CFW500-CRS485-B module.
- USB via the CFW500-CUSB module
- Ethernet via the CFW500-CETH-IP or CFW500-CEMB-TCP module
- RS232 via the CFW500-CRS232 module

### SSW07:

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

### SSW900:

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

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

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

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



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



**CFW-WPS**  
USB Installation Card

# CFW Series Software

## CFW-WLP Software Package

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

For Download only:

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

See the "how to" video for more information:

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

