

# WEG CFW300 Series AC Drives – Introduction



## Purpose of AC Drives

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

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

## WEG CFW300 Overview

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

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

CFW300s include built-in operator

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

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

## Features

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

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

## Accessories

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

## Typical Applications

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

# WEG CFW300 AC Drives – Selection Specifications

## CFW300 Drive Model Selection Tables

CFW300A (Frame Size A)

CFW300B (Frame Size B)

Modular design with easy-to-install accessories



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



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

1) For Use With Three-Phase Motors Only.

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

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

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

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

# WEG CFW300 AC Drives – General Specifications

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

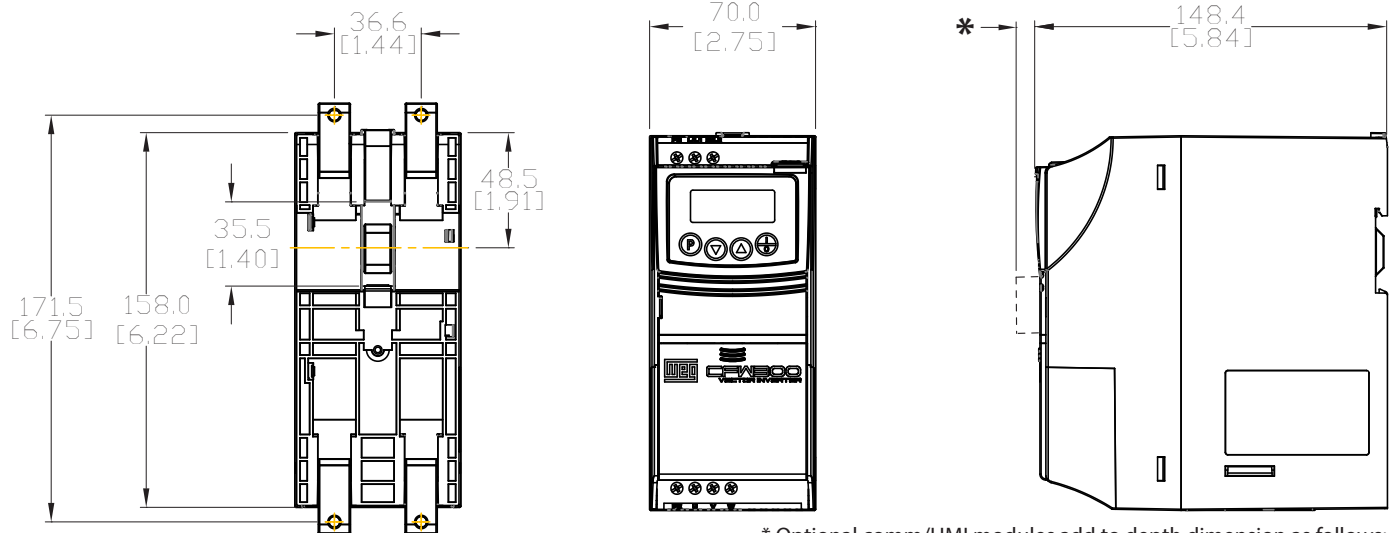
\* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

# WEG CFW300 AC Drives – Dimensions

( mm [in] )

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

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

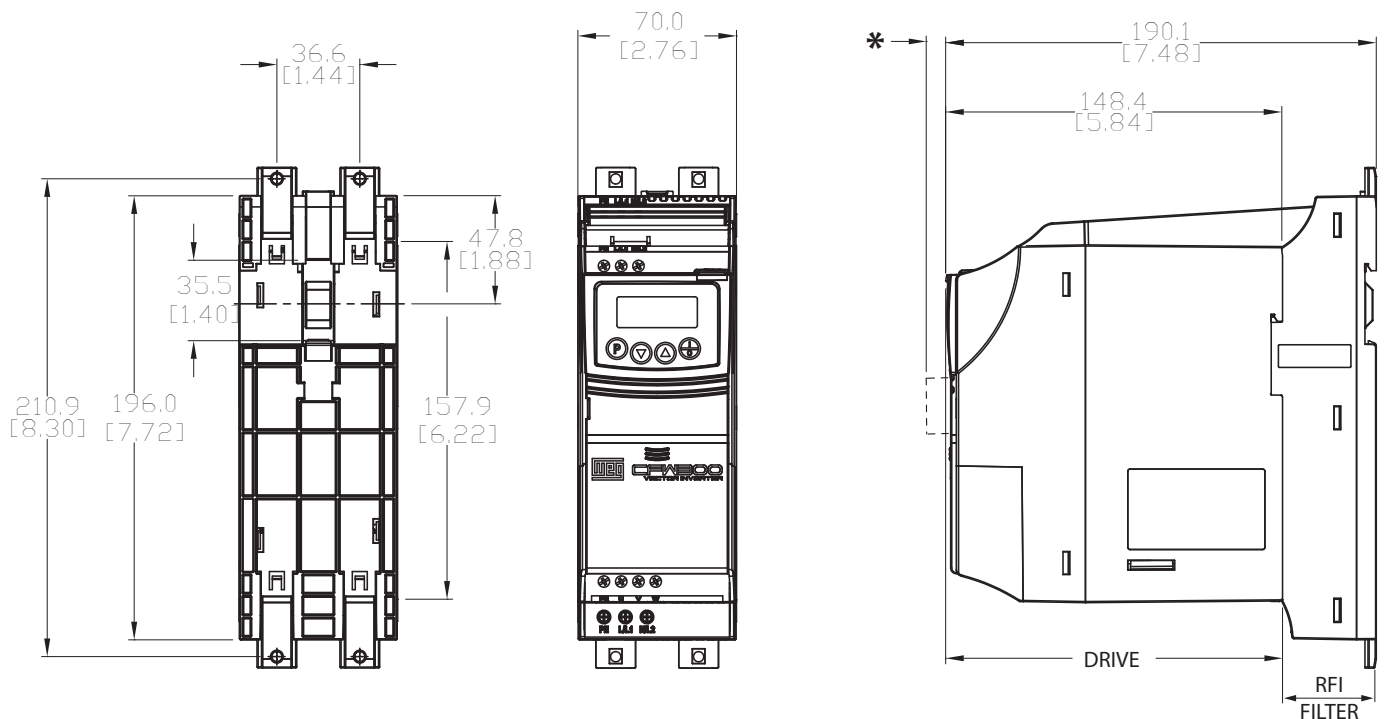


\* Optional comm/HMI modules add to depth dimension as follows:

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

CFW300-CUSB adds: 14.6 [0.58]

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



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

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

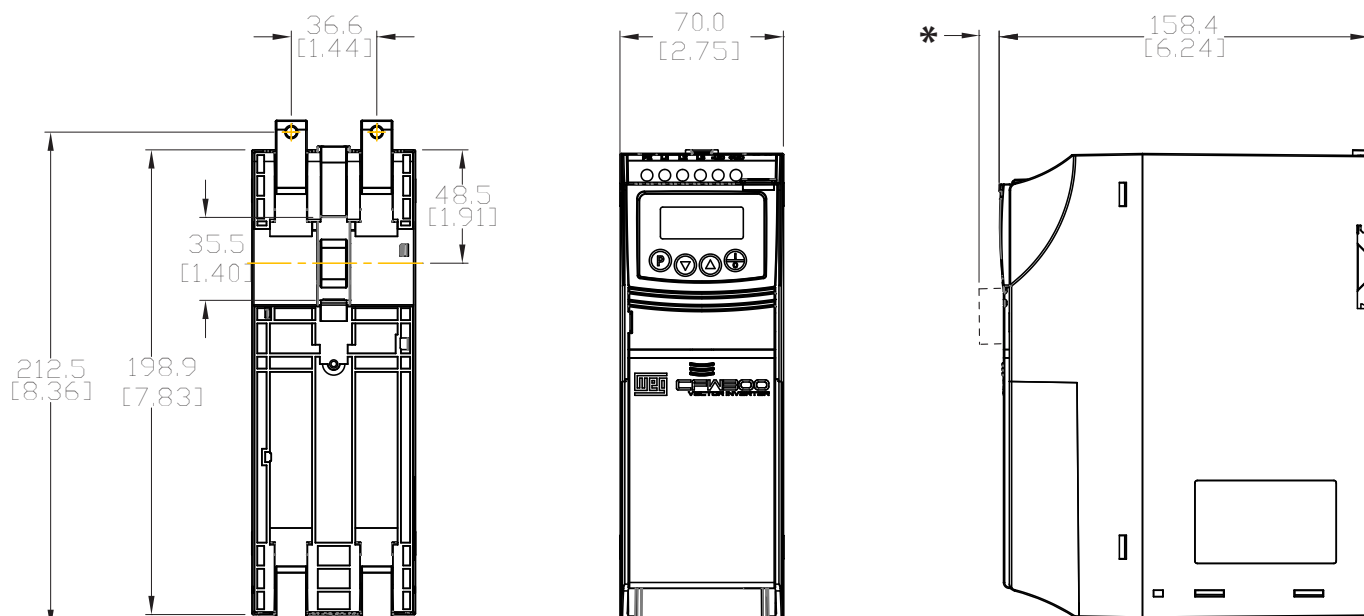
CFW300-CUSB adds: 14.6 [0.58]

# WEG CFW300 AC Drives – Dimensions

( mm [in] )

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

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

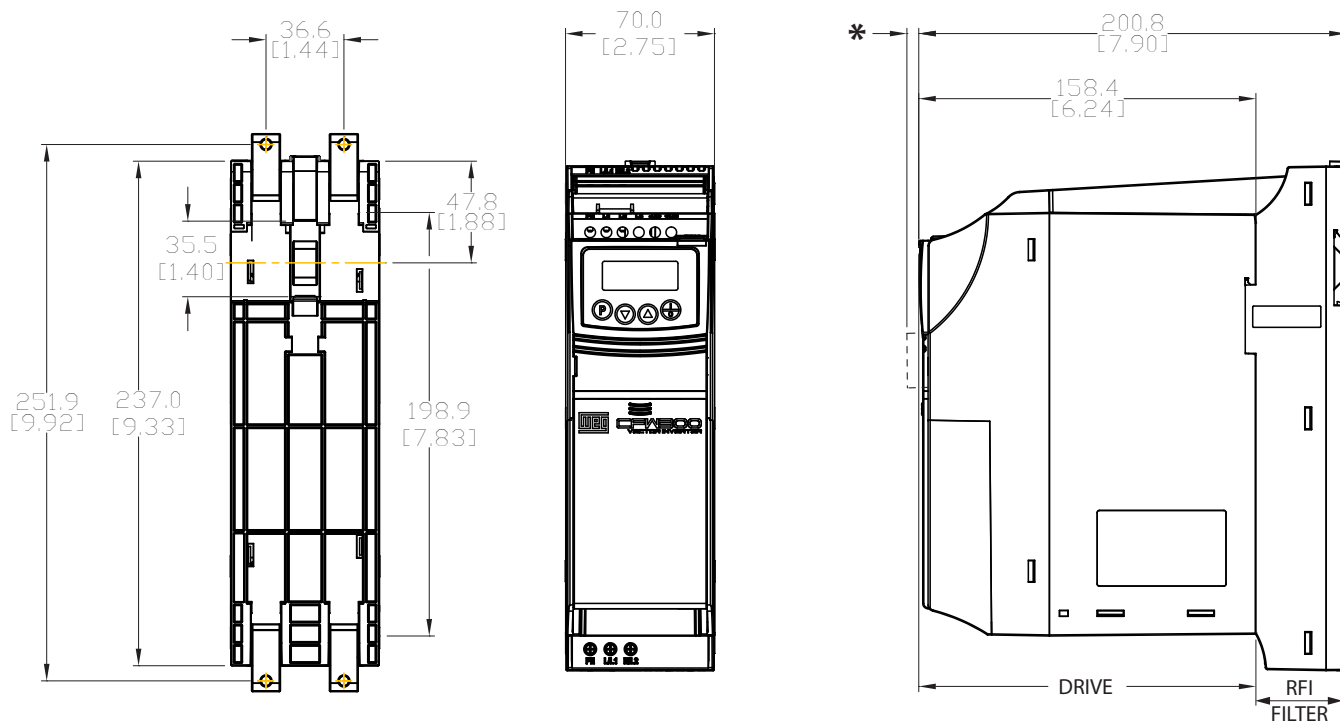


\* Optional comm/HMI modules add to depth dimension as follows:

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

CFW300-CUSB adds: 14.6 [0.58]

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

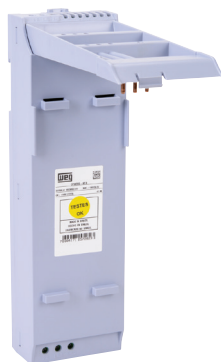


\* Optional comm/HMI modules add to depth dimension as follows:

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

CFW300-CUSB adds: 14.6 [0.58]

# WEG CFW300 AC Drives – Accessories

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

## WEG CFW300 AC Drives Accessories

| Model #                                   | Price    | Description                                                                                                                                                                                                                                     | Use With Drive #CFW... |
|-------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b><u>CFW300-CRS232</u></b> <sup>1)</sup> | \$41.50  | RS-232 serial communication module (Modbus-RTU)                                                                                                                                                                                                 | ...all                 |
| <b><u>CFW300-CRS485</u></b> <sup>1)</sup> | \$41.50  | RS-485 serial communication module (Modbus-RTU)                                                                                                                                                                                                 |                        |
| <b><u>CFW300-CUSB</u></b> <sup>1)</sup>   | \$44.00  | USB communication module + 2m cable                                                                                                                                                                                                             |                        |
| <b><u>CFW300-IOADR</u></b> <sup>2)</sup>  | \$105.00 | WEG Electric CFW300 series temperature combo module with infrared remote control, thermistor, 1-channel input, 3-point output, 250 VAC, (3) Form A (SPST) relays. For use with WEG CFW300 series AC drives.                                     |                        |
| <b><u>CFW300-IOAENC</u></b> <sup>2)</sup> | \$73.00  | WEG Electric CFW300 series encoder analog combo module, 400 kHz maximum switching frequency, 1-channel quadrature encoder input, Analog Input: 1-channel, Analog Output: 2-channel. For use with WEG CFW300 series AC drives.                   |                        |
| <b><u>CFW300-IOAR</u></b> <sup>2)</sup>   | \$72.00  | WEG Electric CFW300 series relay analog combo module, Analog Input: 1-channel, current/voltage, Analog Output: 1-channel, current/voltage, Discrete Output: 3-point, relay, (3) Form A (SPST) relays. For use with WEG CFW300 series AC drives. | ...300A...             |
| <b><u>CFW300-IODR</u></b> <sup>2)</sup>   | \$55.00  | WEG Electric CFW300 series discrete combo module, Input: 4-point, 24 VDC, sinking/sourcing, Output: 3-point, 250 VAC, relay, (3) Form A (SPST) relays, 5A/point. For use with WEG CFW300 series AC drives.                                      |                        |
| <b><u>CFW300-KFA-S1-S2</u></b>            | \$46.00  | WEG Electric EMI input filter, 1-phase, 7.3A, 35mm DIN rail mount, EMI/RFI filtering. For use with WEG CFW300Axxx 1-phase AC drives.                                                                                                            |                        |
| <b><u>CFW300-KFB-S2</u></b>               | \$53.00  | WEG Electric EMI input filter, 1-phase, 10A, 35mm DIN rail mount, EMI/RFI filtering. For use with WEG CFW300Bxxx 1-phase AC drives.                                                                                                             | ...300B...             |
| <b><u>CFW300-KHMIR</u></b> <sup>1)</sup>  | \$130.00 | WEG Electric CFW300 series remote serial HMI, for use with WEG CFW300 series AC drives. (1) CFW300-CRS485 communication module, (1) 9.8ft/3m USB A to miniB-USB cable and installation hardware for optional panel mounting included.           | ...all                 |
| <b><u>MMF-UDRIVES</u></b>                 | \$112.00 | WEG Electric CFW320 series flash memory module, for use with WEG CFW100, CFW300 and CFW320 series AC drives. (1) 3.2ft/1m miniB-USB cable included. (Requires three AAA batteries; not included.)                                               |                        |
| <b><u>CFW300-FAN-A</u></b>                | \$35.50  | Spare/Replacement main cooling fan for CFW300 frame size A drives                                                                                                                                                                               | ...300A...             |
| <b><u>CFW300-FAN-B</u></b>                | \$35.50  | Spare/Replacement main cooling fan for CFW300 frame size B drives                                                                                                                                                                               | ...300B...             |

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

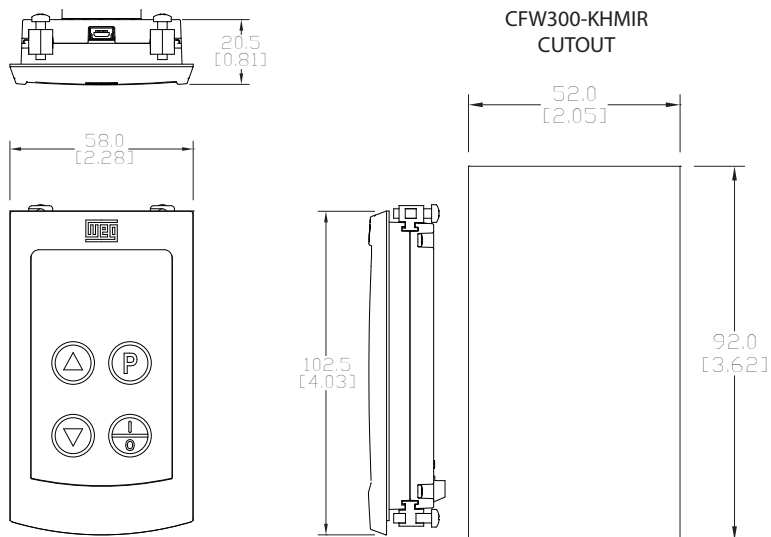
<sup>2)</sup> Only one I/O expansion module per drive; mounted in lower slot

# WEG CFW300 AC Drives Accessories – Dimensions

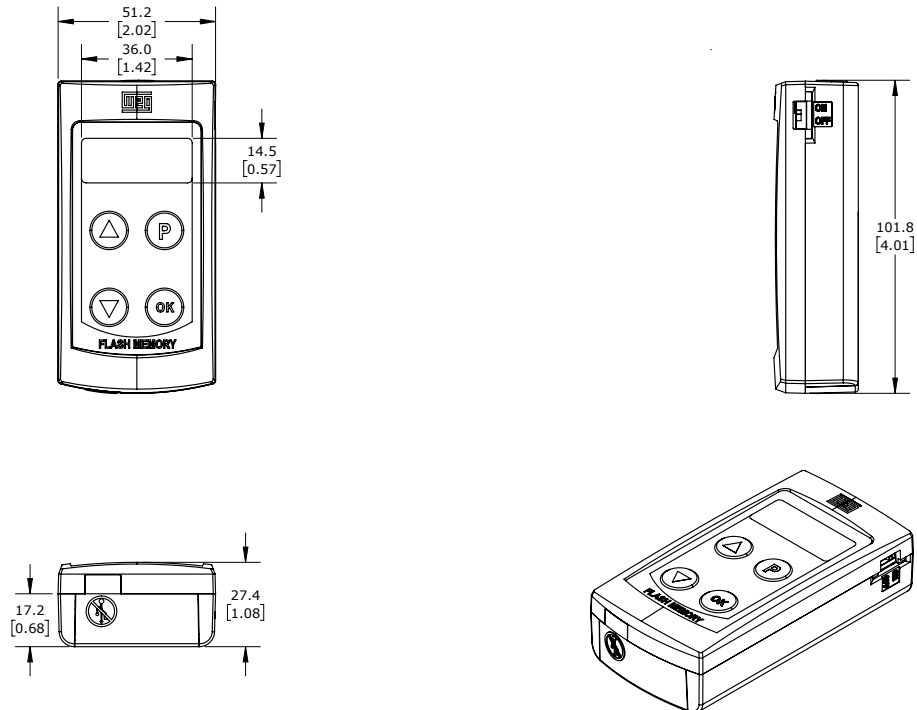
( mm [in] )

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

## CFW300-KHMIR Remote Keypad



## MMF-UDRIVES Flash Memory Module



# WEG CFW300 AC Drives – Accessories

| Additional Accessories Recommended for WEG CFW300 AC Drives                                                                                    |              |                                         |                                            |                                                          |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------|--------------------------------------------|----------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------------------------|---------------------------------|---------------------------------------------------|----------------------------------|----------------------------------------------------|--|
| Drive Part #<br>CFW300...                                                                                                                      | Input<br>Ø/V | C/B<br>Amp                              | Motor Protector <sup>1) 4)</sup>           |                                                          | Fuse <sup>1) 4)</sup>           |                                 |                                                   |                                 |                                                   | Filter                           |                                                    |  |
|                                                                                                                                                |              |                                         | WEG <sup>1) 5)</sup>                       | Fuji <sup>4)</sup>                                       | Amp                             | Class J <sup>1)</sup>           | Class J<br>Holder                                 | Class T <sup>4)</sup>           | Class T<br>Holder                                 | WEG<br>EMI/RFI                   | Roxburgh<br>EMI                                    |  |
| ...A01P6S1NB20                                                                                                                                 | 1Ø<br>115VAC | 10                                      | <a href="#">MPW40-3-U010</a>               | <a href="#">BM3RHB-013</a><br><a href="#">BM3VHB-013</a> | 20                              | <a href="#">JHL20</a> (JHL20-1) | <a href="#">JM60030-1CR</a>                       | <a href="#">TJN20</a> (TJN20-1) | <a href="#">T30030-2SR</a>                        | <a href="#">CFW300-KFA-S1-S2</a> | n/a                                                |  |
| ...A02P6S1NB20                                                                                                                                 |              | 16                                      | <a href="#">MPW40-3-U016</a>               | <a href="#">BM3RHB-020</a><br><a href="#">BM3VHB-020</a> | 20                              | <a href="#">JHL20</a> (JHL20-1) | <a href="#">JM60030-1CR</a>                       | <a href="#">TJN20</a> (TJN20-1) | <a href="#">T30030-2SR</a>                        |                                  |                                                    |  |
| ...A04P2S1NB20                                                                                                                                 |              | 20                                      | <a href="#">MPW40-3-U020</a> <sup>2)</sup> | <a href="#">BM3RHB-025</a><br><a href="#">BM3VHB-025</a> | 35                              | <a href="#">JHL35</a> (JHL35-1) | <a href="#">JM60060-1CR</a>                       | <a href="#">TJN35</a> (TJN35-1) | <a href="#">T30060-2CR</a>                        |                                  |                                                    |  |
| ...A06P0S1NB20                                                                                                                                 |              | 32                                      | <a href="#">MPW40-3-U032</a> <sup>3)</sup> | <a href="#">BM3VHB-040</a>                               | 35                              | <a href="#">JHL35</a> (JHL35-1) | <a href="#">JM60060-1CR</a>                       | <a href="#">TJN35</a> (TJN35-1) | <a href="#">T30060-2CR</a>                        |                                  |                                                    |  |
| ...A01P6S2NB20                                                                                                                                 | 1Ø<br>230VAC | 6.3                                     | <a href="#">MPW40-3-D063</a>               | <a href="#">BM3RHB-010</a><br><a href="#">BM3VHB-010</a> | 20                              | <a href="#">JHL20</a> (JHL20-1) | <a href="#">JM60030-2CR</a>                       | <a href="#">TJN20</a> (TJN20-1) | <a href="#">T30030-2SR</a>                        | <a href="#">CFW300-KFB-S2</a>    | n/a                                                |  |
| ...A02P6S2NB20                                                                                                                                 |              | 10                                      | <a href="#">MPW40-3-U010</a>               | <a href="#">BM3RHB-013</a><br><a href="#">BM3VHB-013</a> | 20                              | <a href="#">JHL20</a> (JHL20-1) | <a href="#">JM60030-2CR</a>                       | <a href="#">TJN20</a> (TJN20-1) | <a href="#">T30030-2SR</a>                        |                                  |                                                    |  |
| ...A04P2S2NB20                                                                                                                                 |              | 16                                      | <a href="#">MPW40-3-U016</a>               | <a href="#">BM3RHB-020</a><br><a href="#">BM3VHB-020</a> | 20                              | <a href="#">JHL20</a> (JHL20-1) | <a href="#">JM60030-2CR</a>                       | <a href="#">TJN20</a> (TJN20-1) | <a href="#">T30030-2SR</a>                        |                                  |                                                    |  |
| ...A06P0S2NB20                                                                                                                                 |              | 16                                      | <a href="#">MPW40-3-U016</a>               | <a href="#">BM3RHB-020</a><br><a href="#">BM3VHB-020</a> | 20                              | <a href="#">JHL20</a> (JHL20-1) | <a href="#">JM60030-2CR</a>                       | <a href="#">TJN20</a> (TJN20-1) | <a href="#">T30030-2SR</a>                        |                                  |                                                    |  |
| ...A07P3S2NB20                                                                                                                                 |              | 20                                      | <a href="#">MPW40-3-U020</a> <sup>2)</sup> | <a href="#">BM3RHB-025</a><br><a href="#">BM3VHB-025</a> | 25                              | <a href="#">JHL25</a> (JHL25-1) | <a href="#">JM60030-2CR</a>                       | <a href="#">TJN25</a> (TJN25-1) | <a href="#">T30030-2SR</a>                        |                                  |                                                    |  |
| ...B10P0B2DB20                                                                                                                                 |              | 25                                      | <a href="#">MPW40-3-U025</a> <sup>2)</sup> | <a href="#">BM3RHB-032</a><br><a href="#">BM3VHB-032</a> | 35                              | <a href="#">JHL35</a> (JHL35-1) | <a href="#">JM60060-2CR</a>                       | <a href="#">TJN35</a> (TJN35-1) | <a href="#">T30060-2CR</a>                        |                                  |                                                    |  |
| ...A01P6T2NB20                                                                                                                                 | 3Ø<br>230VAC | 2.5                                     | <a href="#">MPW40-3-D025</a>               | <a href="#">BM3RHB-004</a>                               | 20                              | <a href="#">JHL20</a> (JHL20-1) | <a href="#">JM60030-3CR</a>                       | <a href="#">TJN20</a> (TJN20-1) | <a href="#">T30030-3SR</a>                        | n/a                              | <a href="#">KMF306A</a><br><a href="#">MIF310</a>  |  |
| ...A02P6T2NB20                                                                                                                                 |              | 6.3                                     | <a href="#">MPW40-3-D063</a>               | <a href="#">BM3RHB-010</a><br><a href="#">BM3VHB-010</a> | 20                              | <a href="#">JHL20</a> (JHL20-1) | <a href="#">JM60030-3CR</a>                       | <a href="#">TJN20</a> (TJN20-1) | <a href="#">T30030-3SR</a>                        |                                  | <a href="#">KMF310A</a><br><a href="#">MIF310</a>  |  |
| ...A04P2T2NB20                                                                                                                                 |              | 10                                      | <a href="#">MPW40-3-U010</a>               | <a href="#">BM3RHB-013</a><br><a href="#">BM3VHB-013</a> | 20                              | <a href="#">JHL20</a> (JHL20-1) | <a href="#">JM60030-3CR</a>                       | <a href="#">TJN20</a> (TJN20-1) | <a href="#">T30030-3SR</a>                        |                                  | <a href="#">KMF318A</a><br><a href="#">MIF316</a>  |  |
| ...A06P0T2NB20                                                                                                                                 |              | 10                                      | <a href="#">MPW40-3-U010</a>               | <a href="#">BM3RHB-013</a><br><a href="#">BM3VHB-013</a> | 20                              | <a href="#">JHL20</a> (JHL20-1) | <a href="#">JM60030-3CR</a>                       | <a href="#">TJN20</a> (TJN20-1) | <a href="#">T30030-3SR</a>                        |                                  | <a href="#">KMF318A</a><br><a href="#">MIF316</a>  |  |
| ...A07P3T2NB20                                                                                                                                 |              | 16                                      | <a href="#">MPW40-3-U016</a>               | <a href="#">BM3RHB-020</a><br><a href="#">BM3VHB-020</a> | 20                              | <a href="#">JHL20</a> (JHL20-1) | <a href="#">JM60030-3CR</a>                       | <a href="#">TJN20</a> (TJN20-1) | <a href="#">T30030-3SR</a>                        |                                  | <a href="#">KMF318A</a><br><a href="#">MIF316</a>  |  |
| ...B10P0B2DB20                                                                                                                                 |              | 25                                      | <a href="#">MPW40-3-U025</a> <sup>2)</sup> | <a href="#">BM3RHB-032</a><br><a href="#">BM3VHB-032</a> | 35                              | <a href="#">JHL35</a> (JHL35-1) | <a href="#">JM60060-3CR</a>                       | <a href="#">TJN35</a> (TJN35-1) | <a href="#">T30060-3CR</a>                        |                                  | <a href="#">KMF336A</a><br><a href="#">MIF330B</a> |  |
| ...B15P2T2DB20                                                                                                                                 |              | 25                                      | <a href="#">MPW40-3-U025</a> <sup>2)</sup> | <a href="#">BM3RHB-032</a><br><a href="#">BM3VHB-032</a> | 35                              | <a href="#">JHL35</a> (JHL35-1) | <a href="#">JM60060-3CR</a>                       | <a href="#">TJN35</a> (TJN35-1) | <a href="#">T30060-3CR</a>                        |                                  | <a href="#">KMF336A</a><br><a href="#">MIF330B</a> |  |
| Drive Part #<br>(same as above)<br>CFW300...                                                                                                   | Input<br>Ø/V | Input Line Reactor                      | Output Load Reactor                        | 3-Phase Output dV/dT<br>Filter                           | Braking Resistors <sup>6)</sup> |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
|                                                                                                                                                |              |                                         |                                            |                                                          | Resistor<br>(ADC)               | Drive<br>Rated<br>A             | Peak<br>Braking<br>Current<br>I <sub>pk</sub> (A) | Min<br>Resistor<br>(Ω)          | Max<br>Braking<br>Current<br>I <sub>rms</sub> (A) | Max<br>Braking<br>Torque*<br>(%) |                                                    |  |
| ...A01P6S1NB20                                                                                                                                 | 1Ø<br>115VAC | <a href="#">LR2-10P2-1PH</a>            | <a href="#">LR2-20P5</a>                   | <a href="#">VTF-46-DE</a>                                | n/a                             | n/a                             | n/a                                               | n/a                             | n/a                                               | n/a                              |                                                    |  |
| ...A02P6S1NB20                                                                                                                                 |              | <a href="#">LR2-10P5-1PH</a>            | <a href="#">LR2-20P5</a>                   | <a href="#">VTF-246-CFG</a>                              |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| ...A04P2S1NB20                                                                                                                                 |              | <a href="#">LR2-22P0-1PH</a>            | <a href="#">LR2-20P5</a>                   | <a href="#">VTF-24-FH</a>                                |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| ...A06P0S1NB20                                                                                                                                 |              | <a href="#">LR2-11P5-1PH</a>            | <a href="#">LR2-21P0</a>                   | <a href="#">VTF-24-FH</a>                                |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| ...A01P6S2NB20                                                                                                                                 | 1Ø<br>230VAC | <a href="#">LR2-20P2-1PH</a>            | <a href="#">LR2-20P5</a>                   | <a href="#">VTF-46-DE</a>                                |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| ...A02P6S2NB20                                                                                                                                 |              | <a href="#">LR2-20P5-1PH</a>            | <a href="#">LR2-20P5</a>                   | <a href="#">VTF-246-CFG</a>                              |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| ...A04P2S2NB20                                                                                                                                 |              | <a href="#">LR2-21P0-1PH</a>            | <a href="#">LR2-20P5</a>                   | <a href="#">VTF-24-FH</a>                                |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| ...A06P0S2NB20                                                                                                                                 |              | <a href="#">LR2-21P5-1PH</a>            | <a href="#">LR2-21P0</a>                   | <a href="#">VTF-24-FH</a>                                |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| ...A07P3S2NB20                                                                                                                                 |              | <a href="#">LR2-22P0-1PH</a>            | <a href="#">LR2-22P0</a>                   | <a href="#">VTF-246-GJJ</a>                              |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| ...B10P0B2DB20                                                                                                                                 |              | <a href="#">LR-27P5 (1PH) / LR-23P0</a> | <a href="#">LR-23P0</a>                    | <a href="#">VTF-246-HKL</a>                              | <a href="#">GS-25P0-BR</a>      | 10                              | 11                                                | 39                              | 10                                                | 110%                             |                                                    |  |
| ...A01P6T2NB20                                                                                                                                 | 3Ø<br>230VAC | <a href="#">LR2-20P2-1PH</a>            | <a href="#">LR2-20P5</a>                   | <a href="#">VTF-46-DE</a>                                | n/a                             | n/a                             | n/a                                               | n/a                             | n/a                                               | n/a                              |                                                    |  |
| ...A02P6T2NB20                                                                                                                                 |              | <a href="#">LR2-20P5</a>                | <a href="#">LR2-20P5</a>                   | <a href="#">VTF-246-CFG</a>                              |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| ...A04P2T2NB20                                                                                                                                 |              | <a href="#">LR2-20P7</a>                | <a href="#">LR2-20P7</a>                   | <a href="#">VTF-24-FH</a>                                |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| ...A06P0T2NB20                                                                                                                                 |              | <a href="#">LR2-20P7</a>                | <a href="#">LR2-20P7</a>                   | <a href="#">VTF-24-FH</a>                                |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| ...A07P3T2NB20                                                                                                                                 |              | <a href="#">LR2-10P2-1PH</a>            | <a href="#">LR2-22P0</a>                   | <a href="#">VTF-246-GJJ</a>                              |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| ...B15P2T2DB20                                                                                                                                 |              | <a href="#">LR-25P0</a>                 | <a href="#">LR-25P0</a>                    | <a href="#">VTF-24-JL</a>                                | <a href="#">GS-25P0-BR</a>      | 15                              | 11                                                | 39                              | 10                                                | 73%                              |                                                    |  |
| <sup>1)</sup> WEG published "High Fault" SCCR ratings (65kA) require the use of either the MPW40 motor protector or Class J fuses.             |              |                                         |                                            |                                                          |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| <sup>2)</sup> For these MPW40 models, the CLT32 accessory is required for 65kA SCCR (without CLT32 current limiter, the SCCR maximum is 50kA). |              |                                         |                                            |                                                          |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| <sup>3)</sup> For this MPW40 model, the CLT32 accessory is required for 65kA SCCR (without CLT32 current limiter, the SCCR maximum is 42kA).   |              |                                         |                                            |                                                          |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| <sup>4)</sup> The use of Fuji BM3RHB motor protectors or Class T fuses will lower the SCCR to the "Standard Fault" rating of 5kA.              |              |                                         |                                            |                                                          |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| <sup>5)</sup> WEG MPW motor protectors and TCI KDR reactors are not currently sold by AutomationDirect.                                        |              |                                         |                                            |                                                          |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |
| <sup>6)</sup> Max braking torque @ 10% duty cycle with maximum ON (braking) time of 10 seconds.                                                |              |                                         |                                            |                                                          |                                 |                                 |                                                   |                                 |                                                   |                                  |                                                    |  |

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

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

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

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

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

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



# CFW/SSW Series Software

## CFW-WPS Software Package

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

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

And MORE!

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

### CFW100:

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

### CFW300:

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

### CFW320:

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

### CFW500:

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

### SSW07:

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

### SSW900:

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

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

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

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



| WEG CFW500 Configuration Software |          |         |                                                                                                                                       |                                                                                                            |              |
|-----------------------------------|----------|---------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------|
| Model #                           | Version  | Price   | Description                                                                                                                           | Features/Specifications                                                                                    | CFW500 Drive |
| <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