# CFW700

## Variable Frequency Drive

- Tough
- Reliable
- Durable
- Quality

# CFW 700 Series

The WEG CFW700 Series was designed to exceed industry expectations. Based on the robust CFW11 platform the CFW700 is designed andd optimized for variable torque applications such as pumps and fans.


A unique drive with unique characteristics:

- Simplicity – same programming as all other WEG drives
- Dual DC Bus chokes (6%) for longer VFD lifetime, reduces harmonics eliminating the need for external line reactors
- 24VDC Power Supply for process transducers - Standard
- Soft-PLC with free programming software
- Encoder Input - Standard
- RS-485 Modbus RTU - Standard
- Conformal Coated boards for harsh industrial environments
- Rated 50 °C (122 °F) – up to 60 °C (140 °F) with derating
- Self-tuning function automatically matches VFD with motor
- UL, cUL, CE, C-Tick, GOST, IRAM, INMETRO approved

The CFW700 is the optimal drive for pump and fan control. The drive includes features such as built in PID controllers that can be programmed in engineering units for ease of understanding and set up. The drive also features an integrated power supply to be used with external transducers to measure flow or pressure.

These features combined with the drive's keypad based start up guide, make installation and parameter set up fast and easy.

## TECHNOLOGY

***WEG Vectrue Technology®*** uses field oriented vector control algorithms

4 in 1: four control modes in one drive, Linear and adjustable V/F, VVW (Voltage Vector WEG), field oriented Sensorless Vector and Vector with encoder

Energy saving V/F control allows user to adjust V/F curve to match a quadratic (centrifugal) load, optimizing the drive for the specific application and maximizing energy savings.

WEG, a leading global motor manufacturer, has been manufacturing VFDs and soft starts for nearly 30 years. All our VFDs and all our soft starts are designed and manufactured by WEG. We maintain strenuous quality control standards and our drives, like our motors, are built to last a lifetime.

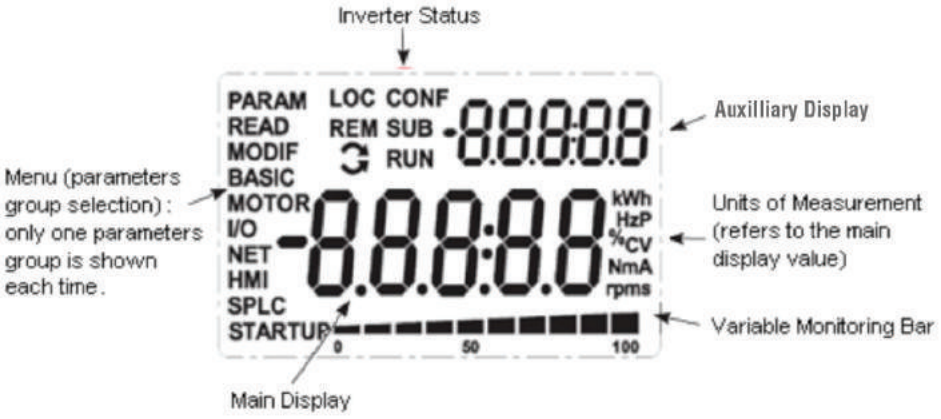


Data is subject to change without notice.

# Keypad

The CFW700 comes equipped with a numeric LCD display capable of providing readings for programming, guiding start-up, and troubleshooting.

- Back light LCD display
- Displays 3 variables simultaneously



Remote mounting HMI for panel assembly solutions ( it can be placed up to 100ft from the drive)

# CFW 700 Rating

## Motor Voltage 220/230V

| Power Supply | | Model | Normal Duty (ND) | NEMA 60Hz 230V | Heavy Duty (ND) | NEMA 60Hz 230V |
|---|---|---|---|---|---|---|
| | | | A | HP | A | HP |
| 200-240 V | 1Ø | CFW700A06POS2 | 6 | 1.5 | 5 | 1 |
| | | CFW700A07POS2 | 7 | 2 | 7 | 2 |
| | | CFW700A10POS2 | 10 | 3 | 10 | 3 |
| | 1/3Ø | CFW700A06POB2 | 6 | 1.5 | 5 | 1 |
| | | CFW700A07POB2 | 7 | 2 | 7 | 2 |
| | 3Ø | CFW700A07POT2 | 7 | 2 | 5.5 | 1 |
| | | CFW700A10POT2 | 10 | 3 | 8 | 2 |
| | | CFW700A13POT2 | 13 | 3 | 11 | 3 |
| | | CFW700A16POT2 | 16 | 5 | 13 | 3 |
| | | CFW700B24POT2 | 24 | 7.5 | 20 | 5 |
| | | CFW700B28POT2 | 28 | 10 | 24 | 7.5 |
| | | CFW700B33POT2 | 33.5 | 10 | 28 | 10 |
| | | CFW700C45POT2 | 45 | 15 | 36 | 10 |
| | | CFW700C54POT2 | 54 | 20 | 45 | 15 |
| | | CFW700C70POT2 | 70 | 25 | 56 | 20 |
| | | CFW700D86POT2 | 86 | 30 | 70 | 25 |
| | | CFW700D0105POT2 | 105 | 40 | 86 | 30 |
| | | CFW700E0142POT2 | 142 | 50 | 115 | 40 |
| | | CFW700E0180POT2 | 180 | 60 | 142 | 50 |
| | | CFW700E0211POT2 | 211 | 75 | 180 | 60 |

## Motor Voltage 460/480V

| Power Supply | | Model | Normal Duty (ND) | NEMA 60Hz 460V | Heavy Duty (ND) | NEMA 60Hz 460V |
|---|---|---|---|---|---|---|
| 460-480 V | 3Ø | CFW700A03P6T4 | 3.6 | 2 | 3.6 | 2 |
| | | CFW700A05P0T4 | 5 | 3 | 5 | 3 |
| | | CFW700A07P0T4 | 7 | 3 | 5.5 | 3 |
| | | CFW700A10P0T4 | 10 | 5 | 10 | 5 |
| | | CFW700A13P5T4 | 13.5 | 7.5 | 11 | 7.5 |
| | | CFW700B17P0T4 | 17 | 10 | 13.5 | 7.5 |
| | | CFW700B24P0T4 | 24 | 15 | 19 | 10 |
| | | CFW700B31P0T4 | 31 | 20 | 25 | 15 |
| | | CFW700C38P0T4 | 38 | 25 | 33 | 20 |
| | | CFW700C45P0T4 | 45 | 30 | 38 | 25 |
| | | CFW700C58P5T4 | 58.5 | 40 | 47 | 30 |
| | | CFW700D70P5T4 | 70.5 | 50 | 61 | 40 |
| | | CFW700D88P0T4 | 88 | 60 | 73 | 50 |
| | | CFW700E0105T4 | 105 | 75 | 88 | 60 |
| | | CFW700E0142T4 | 142 | 100 | 115 | 75 |
| | | CFW700E0180T4 | 180 | 150 | 142 | 100 |
| | | CFW700E0211T4 | 211 | 150 | 180 | 150 |

*Motor power ratings should be used only as guidance. Motor rated currents may vary with speed and manufacturer. NEMA motor powers are based on NEC table 430-150.*

USACFW700

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