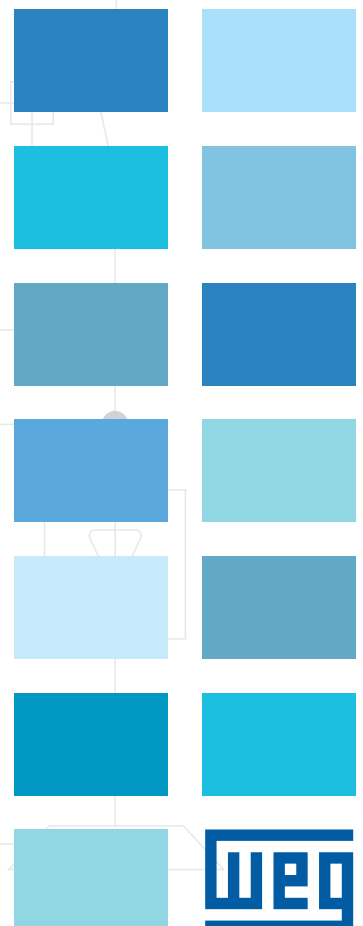


CFW10

Drive

**Farm
Factory
Home**

- Tough
- Reliable
- Durable
- Quality



M
USACFW1009

M
3

Variable Frequency Drives

CFW10

Single Phase - Three Phase Converter

The CFW10 is an economical solution to many applications on the Farm, in the Factory and in the Home Shop. It's a low cost solution for operating three phase motors where only single phase power exists. The CFW10 takes single phase 115 or 230 volt input power and converts it to three phase 230 volts without the need for a transformer. A simple programming keypad and a bright LED display make the drive easy to program and operate while giving the user flexibility to customize the operation for their needs. This rugged drive is capable of operating in ambient temperatures up to 122°F (50°C) without derating. The CFW10 is a simple, rugged drive that will give long lasting performance in the most extreme conditions.

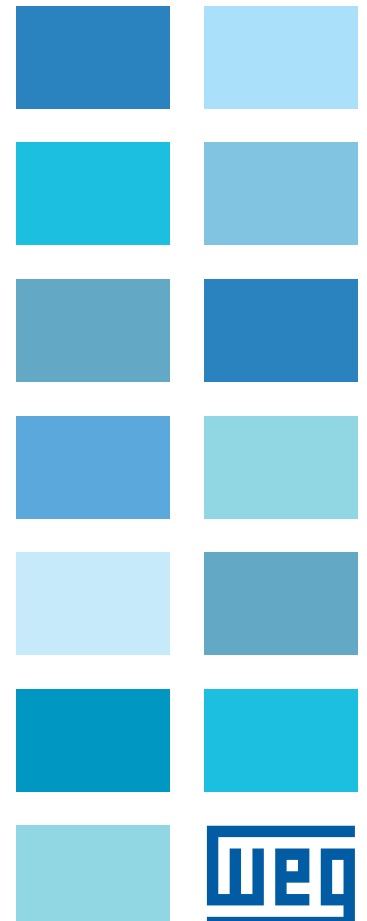


Applications

- Pumps
- Fans/Blowers
- Blowers
- Conveyors
- Rollout tables

Standard Features

- V/Hz control
- IP20 finger safe enclosure
- Single Phase 110-127V input voltage up to 1 HP
- Single Phase 200-240V input voltage up to 3 HP
- 150% current overload capacity
- DSP controlled PWM output
- 2.5-15 kHz adjustable switching frequency
- Four isolated programmable digital inputs
- Programmable relay output
- One isolated programmable analog input
- Diagnostic features: Over current, motor overload, drive over temperature, output short circuit, DC bus over and under voltage and external fault
- Control features: Linear and S-Ramp acceleration and deceleration, local / remote control, DC braking, torque boost, motor slip compensation, electronic pot, preset speeds, minimum and maximum adjustable frequency limits, adjustable output current limit, JOG
- Display readings: Motor speed, frequency, voltage, current, last fault, heatsink temperature and drive status
- Ambient: 122°F (50°C), 3300 ft (1000 m) altitude, 90% humidity, non-condensing



Variable Frequency Drives

CFW10

IP20 Finger-Safe Enclosure



Motor Volts	Motor HP	Drive AMPS	Catalog Number	Frame Size	Dimensions (in.) H x W x D	App. Shpg. Wt. (lbs.)
230V Three Phase	INPUT POWER SUPPLY: SINGLE - PHASE 120V					
	1/4	1.6	CFW100016SAZ	1	5.2 x 3.8 x 4.8	2
	1/2	2.6	CFW100026SAZ	1	5.2 x 3.8 x 4.8	2
	1	4.0	CFW100040SAZ	2	6.4 x 4.6 x 4.4	3
	INPUT POWER SUPPLY: SINGLE - PHASE 230V					
	1/4	1.6	CFW100016SDZ	1	5.2 x 3.8 x 4.8	2
	1/2	2.6	CFW100026SDZ	1	5.2 x 3.8 x 4.8	2
	1	4.0	CFW100040SDZ	1	5.2 x 3.8 x 4.8	2
	2	7.3	CFW100073SDZ	2	6.4 x 4.6 x 4.4	3
	3	10	CFW100100SDZ	3	7.6 x 4.6 x 4.8	4

Notes: 1) "HP" rating based on "average FLA values". Use as a guide only. Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive. 2) For other technical data please refer to WEG product manual.

IP20 Finger-Safe Enclosure – With Potentiometer

Motor Volts	Motor HP	Drive AMPS	Catalog Number	Frame Size	Dimensions (in.) H x W x D	App. Shpg. Wt. (lbs.)
230V Three Phase	INPUT POWER SUPPLY: SINGLE - PHASE 120V					
	1/4	1.6	CFW100016SAPLZ	1	5.2 x 3.8 x 4.8	2
	1/2	2.6	CFW100026SAPLZ	1	5.2 x 3.8 x 4.8	2
	1	4.0	CFW100040SAPLZ	2	6.4 x 4.6 x 4.4	3
	INPUT POWER SUPPLY: SINGLE - PHASE 230V					
	1/4	1.6	CFW100016SDPLZ	1	5.2 x 3.8 x 4.8	2
	1/2	2.6	CFW100026SDPLZ	1	5.2 x 3.8 x 4.8	2
	1	4.0	CFW100040SDPLZ	1	5.2 x 3.8 x 4.8	2
	2	7.3	CFW100073SDPLZ	2	6.4 x 4.6 x 4.4	3
	3	10	CFW100100SDPLZ	3	7.6 x 4.6 x 4.8	4

Notes: 1) "HP" rating based on "average FLA values". Use as a guide only. Motor FLA may vary with speed and manufacturer. ALWAYS compare motor FLA to Nominal AMPS of drive.

2) For other technical data please refer to WEG product manual.



Technical Data

Power Supply	Voltage	Single phase	110...127V (+10%, -15%)
		Single phase	200...240V (+10%, -15%)
	Frequency	50 / 60Hz +/- 2Hz	
Enclosure	Displacement Power Factor	Greater than 0.98	
	Degree of Protection	IP20	
	Control Mode	Linear or Quadratic V/Hz	
Control	Power Output	16 bit DSP	
	Sinusoidal PWM (Space Vector Modulation)		
	Switching Frequency	2.5, 5, 10 or 15kHz	
	Frequency Range	0-300 Hz	
Control Inputs	Overload Capacity	150% during 60 sec. every 10 min.	
	4 programmable isolated digital inputs		
	1 programmable differential analog input: 0-10V, 0-20mA or 4-20mA		
Control Output	1 programmable relay outputs, one reversing (Form C) contact: 250V / 0.5A		
Safety	Protections	Motor over current	DC link over voltage
		Motor overload	DC link under voltage
		output phase-to-phase short circuit	Drive over temperature
		output phase-to-ground short circuit	external fault
		programming error	
Ambient	Temperature	Up to 122°F (50°C) without derating	
	Humidity	5...90% Non Condensing	
	Altitude	0...3300 ft (1000m), up to 13,200 ft (4000m) with 10% / 3300ft (1000m) output current derating	
Conformities	EMC Directive 89 / 336 / EEC	Electromagnetic compatibility – Industrial Environment EMC – Emission and Immunity	
	EN61800-3		
	LVD 73/23/EEC	Low Voltage Directive	
Special Functions	UL 508 C	Power Conversion Equipment	
	Linear and "S" ramp accel and decel, local/remote control, FWD/REV selection, DC braking, manual and auto torque boost, motor slip compensation, electronic pot, two skip frequencies, maximum and minimum adjustable frequency limits, adjustable output current limit, 8 present speeds and JOG.		
	Keypad	3 digit display, 2 indication LEDs and 4 keys	
Mounting	Readouts for: output frequency (Hz), output current (A), output voltage (V), value proportional to frequency (Ex: RPM), heatsink temperature, fault and status messages.		
	Surface with screws		

Please contact your authorized distributor:

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