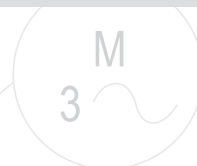
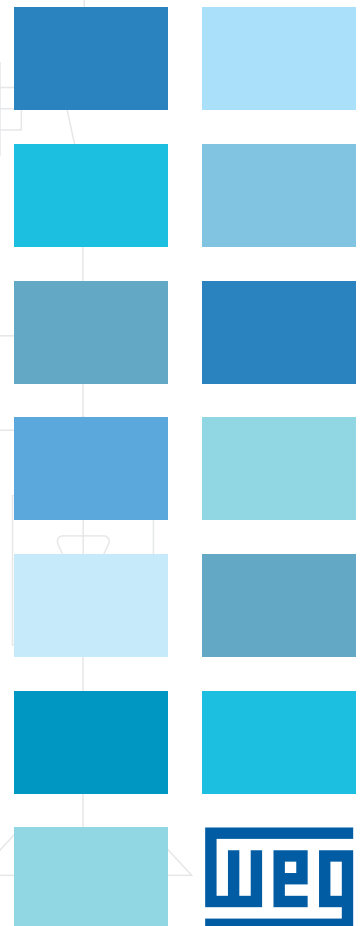
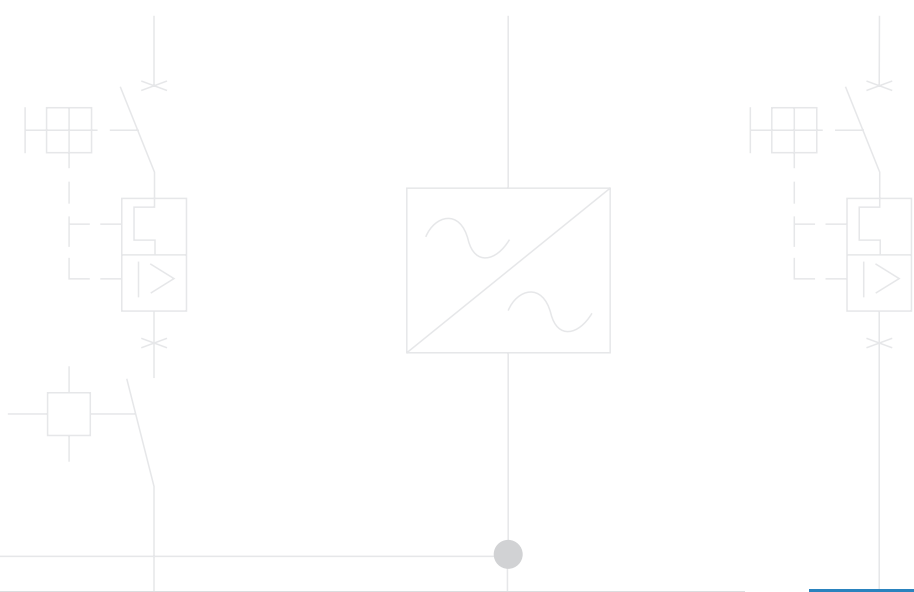


CFW08

Drive

- Tough
- Reliable
- Durable
- Quality



Variable Frequency Drives CFW08 Plus, Multipump, and Wash

The WEG CFW08 Series of drives features the compact size of a microdrive yet the full functionality of much larger competitors. From extensive programmable control features to flexible mounting and display options, the CFW08 has everything one needs in a small, reliable drive package.

The CFW08 Series features three versions: standard NEMA 1, Multipump control, and NEMA 4 Wash Down duty.



Applications

A1

- Pumps
- Fans
- Blowers
- Conveyors
- Rollout tables
- Agitators
- Mixers
- Food Applications

A5

- Multi-pumps systems

Optional Features

- Dynamic Braking Resistors available
- Remote Keypad with Copy Function
- RS-232 or RS-485 Serial Interface
- Modbus Communication*
- DIN rail mounting through 2HP

*Requires optional RS-232 or RS-485 Interface

Standard Features

- V/Hz and Sensorless Vector Control
- NEMA 1 Enclosure
- Single and Three-phase input voltage
- 200-240V or 380-480V input voltage
- 150% current overload capacity
- 16 bit DSP controlled PWM output
- 2.5 / 5 / 10 / 15 kHz adjustable switching frequency
- Four isolated programmable digital inputs
- Two programmable relay outputs
- Two isolated programmable analog inputs
- Protective features: Over current, motor overload, drive over temperature, output phase-to-phase and phase-to-ground 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, adjustable V/Hz profile, maximum and minimum adjustable frequency limits, two skip frequencies, adjustable output current limit, JOG, ride-thru, flying start and PID regulator.
- Display readings: Motor speed, frequency, voltage, current, last fault, heatsink temperature and drive status
- Ambient: 32°F (0°C) to 104°F (40°C), 3300ft (1000m) altitude, 90% humidity, non-condensing



Variable Frequency Drives

CFW08 Plus



CFW08 Plus – NEMA 1 Enclosure - A1 Version

Motor Volts	Motor HP	Drive AMPS	Catalog Number	Braking Transistor	Frame Size	Dimensions (in.) H x W x D	App. Shpg. Wt. (lbs.)
230 V	INPUT POWER SUPPLY: SINGLE OR THREE-PHASE - 230V						
	1/4 or 1/3	1.6	CFW080016BDN1A1Z	NO	1	6.8 x 3 x 5.2	3
	1/2	2.6	CFW080026BDN1A1Z	NO	1	6.8 x 3 x 5.2	3
	1	4	CFW080040BDN1A1Z	NO	1	6.8 x 3 x 5.2	3
	2	7.3	CFW080073BDN1A1Z	YES	2	9.7 x 4.5 x 5.9	6
	3	10	CFW080100BDN1A1Z	YES	2	9.7 x 4.5 x 5.9	6
	INPUT POWER SUPPLY: THREE PHASE - 230V						
	1/4 or 1/3	1.6	CFW080016BDN1A1Z	NO	1	6.8 x 3 x 5.2	3
	1/2	2.6	CFW080026BDN1A1Z	NO	1	6.8 x 3 x 5.2	3
	1	4	CFW080040BDN1A1Z	NO	1	6.8 x 3 x 5.2	3
	2	7	CFW080070TDN1A1Z	NO	1	6.8 x 3 x 5.2	3
	2	7.3	CFW080073BDN1A1Z	YES	2	9.7 x 4.5 x 5.9	6
	3	10	CFW080100BDN1A1Z	YES	2	9.7 x 4.5 x 5.9	6
	5	16	CFW080160TDN1A1Z	YES	2	9.7 x 4.5 x 5.9	6
	7.5	22	CFW080220TDN1A1Z	YES	3	8 x 5.6 x 6.5	8
	10	28	CFW080280TDN1A1Z	YES	4	11.4 x 7.2 x 7.7	16
460 V	INPUT POWER SUPPLY: THREE PHASE - 460V						
	1/4 or 1/3	1	CFW080010TGN1A1Z	NO	1	6.8 x 3 x 5.2	3
	3/4	1.6	CFW080016TGN1A1Z	NO	1	6.8 x 3 x 5.2	3
	1	2.6	CFW080026TGN1A1Z	NO	1	6.8 x 3 x 5.2	3
	1	2.7	CFW080027TGN1A1Z	YES	2	9.7 x 4.5 x 5.9	6
	2	4	CFW080040TGN1A1Z	NO	1	6.8 x 3 x 5.2	3
	2	4.3	CFW080043TGN1A1Z	YES	2	9.7 x 4.5 x 5.9	6
	3	6.5	CFW080065TGN1A1Z	YES	2	9.7 x 4.5 x 5.9	6
	5	10	CFW080100TGN1A1Z	YES	2	9.7 x 4.5 x 5.9	6
	7.5	13	CFW080130TGN1A1Z	YES	3	8 x 5.6 x 6.5	8
	10	16	CFW080160TGN1A1Z	YES	3	8 x 5.6 x 6.5	8
	15	24	CFW080240TGN1A1Z	YES	4	11.4 x 7.2 x 7.7	16
20	30	CFW080300TGN1A1Z	YES	4	11.4 x 7.2 x 7.7	16	
575V	INPUT POWER SUPPLY: THREE PHASE - 575V						
	1	1.7	CFW080017THN1A1Z	YES	6	8.0 x 5.6 x 6.5	6
	2	3	CFW080030THN1A1Z	YES	6	8.0 x 5.6 x 6.5	6
	3	4.3	CFW080043THN1A1Z	YES	6	8.0 x 5.6 x 6.5	6
	5	7	CFW080070THN1A1Z	YES	6	8.0 x 5.6 x 6.5	6
	7.5	10	CFW080100THN1A1Z	YES	6	8.0 x 5.6 x 6.5	6
	10	12	CFW080120THN1A1Z	YES	6	8.0 x 5.6 x 6.5	6

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. 3) All 575V drives are non-stocked items, consult WEG for availability.



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Variable Frequency Drives CFW08 Wash

CFW08 NEMA 4 Enclosure



HP	NOM. AMPS	CATALOG NUMBER	BRAKING TRANSISTOR	DIMENSIONS H x W x D	App. Shpg. Wt. (lbs.)	
230 V	THREE PHASE - 230V					
	2	7.3	CFW080073BDN4A1Z	YES	10.4 X 6.5 X 8.5	5
	3	10	CFW080100BDN4A1Z	YES	10.4 X 6.5 X 8.5	5
	5	16	CFW080160TDN4A1Z	YES	10.4 X 6.5 X 8.5	5
	7.5	22	CFW080220TDN4A1Z	YES	13.4 X 8.5 X 8.5	18
	10	28	CFW080280TDN4A1Z	YES	13.4 X 8.5 X 8.5	18
460V	THREE PHASE - 460V					
	1	2.7	CFW080027TGN4A1Z	YES	10.4 X 6.5 X 8.5	5
	2	4.3	CFW080043TGN4A1Z	YES	10.4 X 6.5 X 8.5	5
	3	6.5	CFW080065TGN4A1Z	YES	10.4 X 6.5 X 8.5	5
	5	10	CFW080100TGN4A1Z	YES	10.4 X 6.5 X 8.5	5
	7.5	13	CFW080130TGN4A1Z	YES	13.4 X 8.5 X 8.5	18
	3	16	CFW080160TGN4A1Z	YES	13.4 X 8.5 X 8.5	18
	5	24	CFW080240TGN4A1Z	YES	13.4 X 8.5 X 8.5	18
575V	THREE PHASE - 460V					
	1	1.7	CFW080017THN1A1Z	YES	13.4 X 8.5 X 8.5	18
	2	3	CFW080030THN1A1Z	YES	13.4 X 8.5 X 8.5	18
	3	4.3	CFW080043THN1A1Z	YES	13.4 X 8.5 X 8.5	18
	5	7	CFW080070THN1A1Z	YES	13.4 X 8.5 X 8.5	18
	7.5	10	CFW080100THN1A1Z	YES	13.4 X 8.5 X 8.5	18
	10	12	CFW080120THN1A1Z	YES	13.4 X 8.5 X 8.5	18

Variable Frequency Drives CFW08 Multipumps

CFW08 – NEMA 1 Enclosure - A5 Version



Motor Volts	Motor HP	Drive AMPS	Catalog Number	Braking Transistor	Frame Size	Dimensions (in.) H x W x D	App. Shpg. Wt. (lbs.)
230 V	INPUT POWER SUPPLY: SINGLE OR THREE-PHASE - 230V						
	2	7.3	CFW080073BDN1A5Z	YES	2	7.9 x 4.5 x 5.9	4.4
	3	10	CFW080100BDN1A5Z	YES	2	7.9 x 4.5 x 5.9	4.4
230 V	INPUT POWER SUPPLY: THREE PHASE - 230V						
	2	7.3	CFW080073BDN1A5Z	YES	2	7.9 x 4.5 x 5.9	4.4
	3	10	CFW080100BDN1A5Z	YES	2	7.9 x 4.5 x 5.9	4.4
	5	16	CFW080160TDN1A5Z	YES	2	7.9 x 4.5 x 5.9	4.4
	7.5	22	CFW080220TDN1A5Z	YES	3	8.0 x 5.6 x 6.5	5.5
	10	28	CFW080280TDN1A5Z	YES	4	11.4 x 7.2 x 7.7	13.2
460V	INPUT POWER SUPPLY: THREE PHASE - 460V						
	1	2.7	CFW080027TGN1A5Z	YES	2	7.9 x 4.5 x 5.9	4.4
	2	4.3	CFW080043TGN1A5Z	YES	2	7.9 x 4.5 x 5.9	4.4
	3	6.5	CFW080065TGN1A5Z	YES	2	7.9 x 4.5 x 5.9	4.4
	5	10	CFW080100TGN1A5Z	YES	2	7.9 x 4.5 x 5.9	4.4
	7.5	13	CFW080130TGN1A5Z	YES	3	8.0 x 5.6 x 6.5	5.5
	3	16	CFW080160TGN1A5Z	YES	3	8.0 x 5.6 x 6.5	5.5
	5	24	CFW080240TGN1A5Z	YES	4	11.4 x 7.2 x 7.7	13.2
	7.5	30	CFW080300TGN1A5Z	YES	4	11.4 x 7.2 x 7.7	13.2

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.



Variable Frequency Drives CFW08

CFW08 – DB Resistors 10% Duty Cycle



Motor Volts	Motor HP	For Use with CFW08 Plus Model Number:	Catalog Number	OHMS	WATTS
230 V	2	CFW080073BDN1A1Z or A5Z	CFDB39-224	39	224
	3	CFW080100BDN1A1Z or A5Z	CFDB27-298	27	298
	5	CFW080160TDN1A1Z or A5Z	CFDB22-373	22	373
	7.5	CFW080220TDN1A1Z or A5Z	CFDB15-560	15	560
	10	CFW080280TDN1A1Z or A5Z	CFDB10-746	10	746
460 V	1	CFW080027TGN1A1Z or A5Z	CFDB120-298	120	298
	2	CFW080043TGN1A1Z or A5Z	CFDB120-298	120	298
	3	CFW080065TGN1A1Z or A5Z	CFDB100-224	100	224
	5	CFW080100TGN1A1Z or A5Z	CFDB47-746	47	746
	7.5	CFW080130TGN1A1Z or A5Z	CFDB33-746	33	746
	10	CFW080160TGN1A1Z or A5Z	CFDB33-746	33	746
	15	CFW080240TGN1A1Z or A5Z	CFDB22-1119	22	1119
	20	CFW080300TGN1A1Z or A5Z	CFDB18-1492	18	1492

Note: These are non-stocked items, consult WEG for availability

CFW08 – Accessories

Description		Catalog Number
Keypads	NEMA 4 Remote Keypad (requires MIS-CFW08-RS & cable)	HMI-CFW08-RS
	Remote Keypad Interface	MIS-CFW08-RS
	Keypad Cover	TCL-CFW08
Keypad Cables	3.3 ft Remote Keypad Cable	CAB-RS-1
	6.6 ft Remote Keypad Cable	CAB-RS-2
	10 ft Remote Keypad Cable	CAB-RS-3
	16 ft Remote Keypad Cable	CAB-RS-5
	25 ft Remote Keypad Cable	CAB-RS-7.5
	33 ft Remote Keypad Cable	CAB-RS-10
Options	RS-232 Serial Comm. Module (mounted in place of keypad)	KCS-CFW08
	RS-232/485 Converter (mounted externally)	MIW-02
	PC Communication Kit	KSD-CFW08
	Interface for RS-485 Communication	KRS-485-CFW08
	Easy Mounting Kit - Size 1	KFIX-CFW08-M1
	Easy Mounting Kit - Size 2	KFIX-CFW08-M2
	NEMA 1 Kit - IP20 - Size 1	KN1-CFW08-M1
	NEMA 1 Kit - IP20 - Size 2	KN1-CFW08-M2
	DIN Rail Mounting Base - Size 1	KMD-CFW08-M1
	Remote Station-includes Start PB, Stop PB, 1-NC and 1-NO contact block, Potentiometer 5k and legends (22mm) replaces CFW-REM	CSW-SP3PBS
	Remote Station-includes Start PB, Stop PB, 1-NC and 1-NO contact block, Potentiometer 5k and legends (30mm) replaces CFW-REM	CSW30-SP3PBS
120VAC Digital Input Adaptor Board (4 inputs)	KAC-120-CFW08	

Variable Frequency Drives

CFW08

CFW08 Plus – Technical Data

Power Supply	Voltage	Single or Three Phase	220...240V (+10%, -15%)
		Three Phase	380...480V (+10%, -15%)
	Frequency	50 / 60Hz +/- 2Hz	
	Cos (Displacement Power Factor)	Greater than 0.98	
Enclosure	Degree of Protection	NEMA1	
Control	Control Modes	V/Hz	
		Sensorless Voltage Vector	
	Processor	16 bit DSP	
	Power Output	Sinusoidal PWM (Space Vector Modulation)	
		IGBT Transistors 2.5, 5, 10 or 15kHz	
	Switching Frequency	2.5, 5, 10 or 15kHz Switching Frequency	
Frequency Range	0 - 300Hz		
Overload Capacity	150% during 60 sec. every 10 min.		
Control Inputs	4 programmable isolated digital inputs, NPN or 24Vdc logic (PNP)		
	2 x programmable differential analog inputs, programmable for current or voltage with 0.25% linearity error and can be set as DI or as PTC input		
Control Outputs	2 programmable relay outputs, one NO (Form A) and on NC (Form B): 250 V / 0.5 A		
	1 x outputs with independent NO and NC at a same common		
	1 x output, programmable for voltage (0-10V) or current (0-20 mA or 4-20 mA) and with 0.25% linearity error		
Communication	Serial	Optional RS-232 serial interface, RS-485 with external RS-232/485 converter	
	Field Bus	Modbus RTU with external RS-232/485 converter	
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	0...104°F (40°C), up to 122°F (50°C) with 2% / 1.8°F (1°C) output current derating	
	Humidity	5...90% Non Condensing	
	Altitude	0...3300 ft (1000m), up to 13,200 ft (4000m) with 10% / 3300 ft (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	
	UL 508 C	Power Conversion Equipment	
Special Functions	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		
Keypad	4 digit display, 2 indicator LEDs and 8 keys		
	Readouts for: output frequency (Hz), output current (A), output voltage (V), motor torque (%) in vector mode, DC bus voltage (V), value proportional to frequency (Ex.: RPM), heatsink temperature, fault and status messages		
Mounting	Screws or optional DIN rail mount		



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WEG Electric Corp.
1327 Northbrook Parkway, Suite 490
Suwanee, GA 30024
Phone: 1-800-ASK-4WEG
web: www.weg.net

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