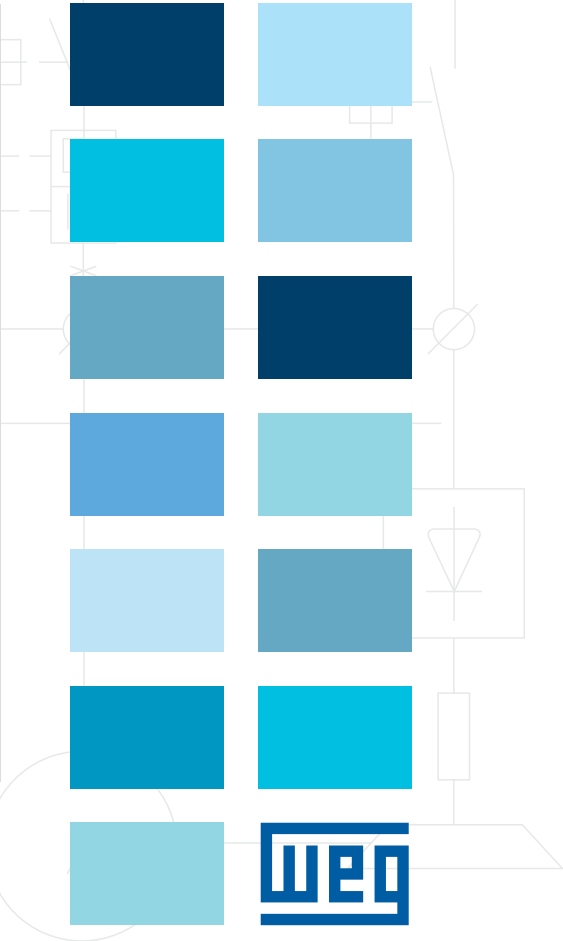
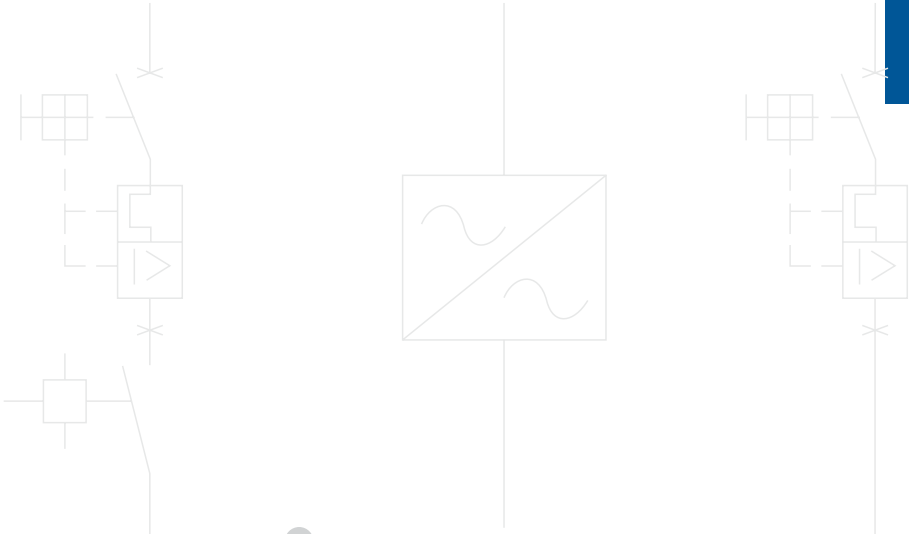


# CFW08

## Drive



# Variable Frequency Drives CFW08 Plus and Multipump

The WEG CFW08 Plus Series is a redesign of our successful  $\mu$ line VFDs. Engineering improvements have produced one of the most compact and full featured microdrives in the marketplace.

Outstanding features and options in a NEMA 1 enclosure allow the CFW08 Plus to be successfully used in a large variety of applications.



CFW08

## Applications

### A1

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

### A5

- Multi-pumps systems

### NEMA 4X

- Any washdown applications

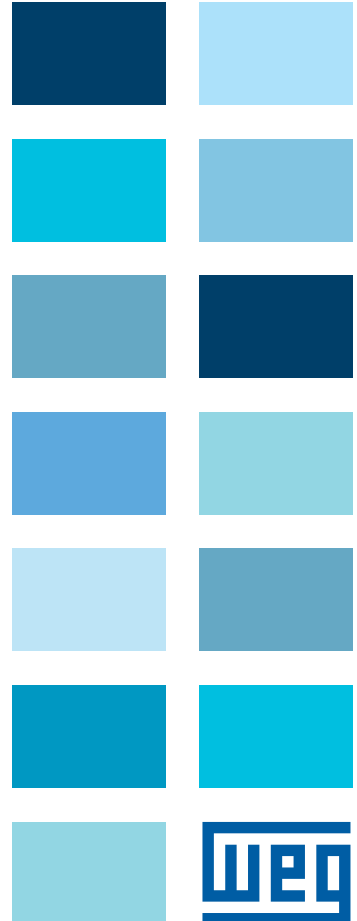
## Standard Features

- V/Hz and Sensorless Vector Control
- NEMA 1 Enclosure or NEMA 4X(IP56)
- 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

## 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



# Variable Frequency Drives

## CFW08 Plus

### CFW08 Plus – NEMA 1 Enclosure - A1 Version



CFW08

Motor Volts	Motor HP	Drive AMPS	Catalog Number	Braking Transistor	Frame Size	Dimensions (in.) H x W x D	App. Shpg. Wt. (lbs.)	List Price	Multiplier Symbol	
230 V	INPUT POWER SUPPLY: SINGLE OR THREE-PHASE - 230V									
	1/4 or 1/3	1.6	<a href="#">CFW080016BDN1A1Z</a>	NO	1	6.8 x 3 x 5.2	3	\$439	V1	
	1/2	2.6	<a href="#">CFW080026BDN1A1Z</a>	NO	1	6.8 x 3 x 5.2	3	\$462	V1	
	1	4	<a href="#">CFW080040BDN1A1Z</a>	NO	1	6.8 x 3 x 5.2	3	\$505	V1	
	2	7.3	<a href="#">CFW080073BDN1A1Z</a>	YES	2	9.7 x 4.5 x 5.9	6	\$743	V1	
	3	10	<a href="#">CFW080100BDN1A1Z</a>	YES	2	9.7 x 4.5 x 5.9	6	\$831	V1	
	INPUT POWER SUPPLY: THREE PHASE - 230V									
	1/4 or 1/3	1.6	<a href="#">CFW080016BDN1A1Z</a>	NO	1	6.8 x 3 x 5.2	3	\$439	V1	
	1/2	2.6	<a href="#">CFW080026BDN1A1Z</a>	NO	1	6.8 x 3 x 5.2	3	\$462	V1	
	1	4	<a href="#">CFW080040BDN1A1Z</a>	NO	1	6.8 x 3 x 5.2	3	\$505	V1	
	2	7	<a href="#">CFW080070TDN1A1Z</a>	NO	1	6.8 x 3 x 5.2	3	\$643	V1	
	2	7.3	<a href="#">CFW080073BDN1A1Z</a>	YES	2	9.7 x 4.5 x 5.9	6	\$743	V1	
	3	10	<a href="#">CFW080100BDN1A1Z</a>	YES	2	9.7 x 4.5 x 5.9	6	\$831	V1	
	5	16	<a href="#">CFW080160TDN1A1Z</a>	YES	2	9.7 x 4.5 x 5.9	6	\$982	V1	
	7.5	22	<a href="#">CFW080220TDN1A1Z</a>	YES	3	8 x 5.6 x 6.5	8	\$1,415	V1	
	10	28	<a href="#">CFW080280TDN1A1Z</a>	YES	4	11.4 x 7.2 x 7.7	16	\$1,813	V1	
460 V	INPUT POWER SUPPLY: THREE PHASE - 460V									
	1/4 or 1/3	1	<a href="#">CFW080010TGN1A1Z</a>	NO	1	6.8 x 3 x 5.2	3	\$578	V1	
	3/4	1.6	<a href="#">CFW080016TGN1A1Z</a>	NO	1	6.8 x 3 x 5.2	3	\$609	V1	
	1	2.6	<a href="#">CFW080026TGN1A1Z</a>	NO	1	6.8 x 3 x 5.2	3	\$645	V1	
	1	2.7	<a href="#">CFW080027TGN1A1Z</a>	YES	2	9.7 x 4.5 x 5.9	6	\$715	V1	
	2	4	<a href="#">CFW080040TGN1A1Z</a>	NO	1	6.8 x 3 x 5.2	3	\$777	V1	
	2	4.3	<a href="#">CFW080043TGN1A1Z</a>	YES	2	9.7 x 4.5 x 5.9	6	\$894	V1	
	3	6.5	<a href="#">CFW080065TGN1A1Z</a>	YES	2	9.7 x 4.5 x 5.9	6	\$1,065	V1	
	5	10	<a href="#">CFW080100TGN1A1Z</a>	YES	2	9.7 x 4.5 x 5.9	6	\$1,213	V1	
	7.5	13	<a href="#">CFW080130TGN1A1Z</a>	YES	3	8 x 5.6 x 6.5	8	\$1,485	V1	
	10	16	<a href="#">CFW080160TGN1A1Z</a>	YES	3	8 x 5.6 x 6.5	8	\$1,715	V1	
	15	24	<a href="#">CFW080240TGN1A1Z</a>	YES	4	11.4 x 7.2 x 7.7	16	\$2,301	V1	
20	30	<a href="#">CFW080300TGN1A1Z</a>	YES	4	11.4 x 7.2 x 7.7	16	\$2,779	V1		
575V	INPUT POWER SUPPLY: THREE PHASE - 575V									
	1	1.7	<a href="#">CFW080017THN1A1Z</a>	YES	6	8.0 x 5.6 x 6.5	6	\$933	V1	
	2	3	<a href="#">CFW080030THN1A1Z</a>	YES	6	8.0 x 5.6 x 6.5	6	\$961	V1	
	3	4.3	<a href="#">CFW080043THN1A1Z</a>	YES	6	8.0 x 5.6 x 6.5	6	\$1100	V1	
	5	7	<a href="#">CFW080070THN1A1Z</a>	YES	6	8.0 x 5.6 x 6.5	6	\$1310	V1	
	7.5	10	<a href="#">CFW080100THN1A1Z</a>	YES	6	8.0 x 5.6 x 6.5	6	\$1204	V1	
10	12	<a href="#">CFW080120THN1A1Z</a>	YES	6	8.0 x 5.6 x 6.5	6	\$1837	V1		

**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.

### CFW08 Plus – Accessories



	Description	Catalog Number	List Price	Multiplier Symbol
Keypads	NEMA 4 Remote Keypad (requires MIS-CFW08-RS & cable)	<a href="#">HMI-CFW08-RS</a>	\$135	V1
	Remote Keypad Interface	<a href="#">MIS-CFW08-RS</a>	\$64	V1
	Keypad Cover	<a href="#">TCL-CFW08</a>	\$13	V1
Keypad Cables	3.3 ft Remote Keypad Cable	<a href="#">CAB-RS-1</a>	\$23	V1
	6.6 ft Remote Keypad Cable	<a href="#">CAB-RS-2</a>	\$31	V1
	10 ft Remote Keypad Cable	<a href="#">CAB-RS-3</a>	\$41	V1
	16 ft Remote Keypad Cable	<a href="#">CAB-RS-5</a>	\$51	V1
	25 ft Remote Keypad Cable	<a href="#">CAB-RS-7.5</a>	\$62	V1
	33 ft Remote Keypad Cable	<a href="#">CAB-RS-10</a>	\$72	V1
Options	RS-232 Serial Comm. Module (mounted in place of keypad)	<a href="#">KCS-CFW08</a>	\$97	V1
	RS-232/485 Converter (mounted externally)	<a href="#">MIW-02</a>	\$221	V1
	PC Communication Kit	<a href="#">KSD-CFW08</a>	\$124	V1
	Interface for RS-485 Communication	<a href="#">KRS-485-CFW08</a>	\$186	V1
	Easy Mounting Kit - Size 1	<a href="#">KFIX-CFW08-M1</a>	\$18	V1
	Easy Mounting Kit - Size 2	<a href="#">KFIX-CFW08-M2</a>	\$18	V1
	NEMA 1 Kit - IP20 - Size 1	<a href="#">KN1-CFW08-M1</a>	\$28	V1
	NEMA 1 Kit - IP20 - Size 2	<a href="#">KN1-CFW08-M2</a>	\$38	V1
	DIN Rail Mounting Base - Size 1	<a href="#">KMD-CFW08-M1</a>	\$10	V1
	Remote Station-includes Start PB, Stop PB, 1-NC and 1-NO contact block, Potentiometer 5k and legends (22mm) replaces CFW-REM	<a href="#">CSW-SP3PBS</a>	\$460	V1
	Remote Station-includes Start PB, Stop PB, 1-NC and 1-NO contact block, Potentiometer 5k and legends (30mm) replaces CFW-REM	<a href="#">CSW30-SP3PBS</a>	\$535	V1
	120VAC Digital Input Adaptor Board (4 inputs)	<a href="#">KAC-120-CFW08</a>	\$145	V1
Local Keypad + 24V power supply	<a href="#">KDC-24V</a>	\$156	V1	





# Variable Frequency Drives CFW08 Multipumps

## CFW08 – NEMA 1 Enclosure - A5 Version

CFW08



Motor Volts	Motor HP	Drive AMPS	Catalog Number	Braking Transistor	Frame Size	Dimensions (in.) H x W x D	App. Shpg. Wt. (lbs.)	List Price	Multiplier Symbol
230 V	INPUT POWER SUPPLY: SINGLE OR THREE-PHASE - 230V								
	2	7.3	<a href="#">CFW080073BDN1A5Z</a>	YES	2	7.9 x 4.5 x 5.9	4.4	\$854	V1
	3	10	<a href="#">CFW080100BDN1A5Z</a>	YES	2	7.9 x 4.5 x 5.9	4.4	\$956	V1
230 V	INPUT POWER SUPPLY: THREE PHASE - 230V								
	2	7.3	<a href="#">CFW080073BDN1A5Z</a>	YES	2	7.9 x 4.5 x 5.9	4.4	\$854	V1
	3	10	<a href="#">CFW080100BDN1A5Z</a>	YES	2	7.9 x 4.5 x 5.9	4.4	\$956	V1
	5	16	<a href="#">CFW080160TDN1A5Z</a>	YES	2	7.9 x 4.5 x 5.9	4.4	\$1,129	V1
	7.5	22	<a href="#">CFW080220TDN1A5Z</a>	YES	3	8.0 x 5.6 x 6.5	5.5	\$1,627	V1
	10	28	<a href="#">CFW080280TDN1A5Z</a>	YES	4	11.4 x 7.2 x 7.7	13.2	\$2,085	V1
460V	INPUT POWER SUPPLY: THREE PHASE - 460V								
	1	2.7	<a href="#">CFW080027TGN1A5Z</a>	YES	2	7.9 x 4.5 x 5.9	4.4	\$822	V1
	2	4.3	<a href="#">CFW080043TGN1A5Z</a>	YES	2	7.9 x 4.5 x 5.9	4.4	\$1,028	V1
	3	6.5	<a href="#">CFW080065TGN1A5Z</a>	YES	2	7.9 x 4.5 x 5.9	4.4	\$1,225	V1
	5	10	<a href="#">CFW080100TGN1A5Z</a>	YES	2	7.9 x 4.5 x 5.9	4.4	\$1,395	V1
	7.5	13	<a href="#">CFW080130TGN1A5Z</a>	YES	3	8.0 x 5.6 x 6.5	5.5	\$1,708	V1
	10	16	<a href="#">CFW080160TGN1A5Z</a>	YES	3	8.0 x 5.6 x 6.5	5.5	\$1,972	V1
	15	24	<a href="#">CFW080240TGN1A5Z</a>	YES	4	11.4 x 7.2 x 7.7	13.2	\$2,646	V1
	20	30	<a href="#">CFW080300TGN1A5Z</a>	YES	4	11.4 x 7.2 x 7.7	13.2	\$3,196	V1

**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.



## CFW08 – Accessories

	Description	Catalog Number	List Price	Multiplier Symbol
Keypads	NEMA 4 Remote Keypad (requires MIS-CFW08-RS & cable)	<a href="#">HMI-CFW08-RS</a>	\$135	V1
	Remote Keypad Interface	<a href="#">MIS-CFW08-RS</a>	\$64	V1
	Keypad Cover	<a href="#">TCL-CFW08</a>	\$13	V1
Keypad Cables	3.3 ft Remote Keypad Cable	<a href="#">CAB-RS-1</a>	\$23	V1
	6.6 ft Remote Keypad Cable	<a href="#">CAB-RS-2</a>	\$31	V1
	10 ft Remote Keypad Cable	<a href="#">CAB-RS-3</a>	\$41	V1
	16 ft Remote Keypad Cable	<a href="#">CAB-RS-5</a>	\$51	V1
	25 ft Remote Keypad Cable	<a href="#">CAB-RS-7.5</a>	\$62	V1
	33 ft Remote Keypad Cable	<a href="#">CAB-RS-10</a>	\$72	V1
Options	RS-232 Serial Comm. Module (mounted in place of keypad)	<a href="#">KCS-CFW08</a>	\$97	V1
	RS-232/485 Converter (mounted externally)	<a href="#">MIW-02</a>	\$221	V1
	PC Communication Kit	<a href="#">KSD-CFW08</a>	\$124	V1
	Interface for RS-485 Communication	<a href="#">KRS-485-CFW08</a>	\$186	V1
	Easy Mounting Kit - Size 1	<a href="#">KFIX-CFW08-M1</a>	\$18	V1
	Easy Mounting Kit - Size 2	<a href="#">KFIX-CFW08-M2</a>	\$18	V1
	NEMA 1 Kit - IP20 - Size 1	<a href="#">KN1-CFW08-M1</a>	\$28	V1
	NEMA 1 Kit - IP20 - Size 2	<a href="#">KN1-CFW08-M2</a>	\$38	V1
	DIN Rail Mounting Base - Size 1	<a href="#">KMD-CFW08-M1</a>	\$10	V1
	Remote Station-includes Start PB, Stop PB, 1-NC and 1-NO contact block, Potentiometer 5k and legends (22mm) replaces CFW-REM	<a href="#">CSW-SP3PBS</a>	\$460	V1
	Remote Station-includes Start PB, Stop PB, 1-NC and 1-NO contact block, Potentiometer 5k and legends (30mm) replaces CFW-REM	<a href="#">CSW30-SP3PBS</a>	\$535	V1
	120VAC Digital Input Adaptor Board (4 inputs)	<a href="#">KAC-120-CFW08</a>	\$145	V1
Local Keypad + 24V power supply	<a href="#">KDC-24V</a>	\$156	V1	



# Variable Frequency Drives CFW08 Wash

## CFW08 NEMA 4X Enclosure



Motor Volts	Motor HP	Drive AMPS	Catalog Number	Braking Transistor	Frame Size	Dimensions (in.) H x W x D	App. Shpg. Wt. (lbs.)	List Price	Multiplier Symbol
230 V	INPUT POWER SUPPLY: SINGLE OR THREE-PHASE - 230V								
	2	7.3	<a href="#">CFW080073BDN4A1Z</a>	YES	2	10.4 X 6.5 X 8.5	5	929	V1
	3	10	<a href="#">CFW080100BDN4A1Z</a>	YES	2	10.4 X 6.5 X 8.5	5	1,039	V1
230 V	INPUT POWER SUPPLY: THREE PHASE - 230V								
	2	7.3	<a href="#">CFW080073BDN4A1Z</a>	YES	2	10.4 X 6.5 X 8.5	5	929	V1
	3	10	<a href="#">CFW080100BDN4A1Z</a>	YES	2	10.4 X 6.5 X 8.5	5	1,039	V1
	5	16	<a href="#">CFW080160TDN4A1Z</a>	YES	2	10.4 X 6.5 X 8.5	5	1,228	V1
	7.5	22	<a href="#">CFW080220TDN4A1Z</a>	YES	3	13.4 X 8.5 X 8.5	18	1,769	V1
	10	28	<a href="#">CFW080280TDN4A1Z</a>	YES	4	13.4 X 8.5 X 8.5	18	2,266	V1
460V	INPUT POWER SUPPLY: THREE PHASE - 460V								
	1	2.7	<a href="#">CFW080027TGN4A1Z</a>	YES	2	10.4 X 6.5 X 8.5	5	894	V1
	2	4.3	<a href="#">CFW080043TGN4A1Z</a>	YES	2	10.4 X 6.5 X 8.5	5	1,118	V1
	3	6.5	<a href="#">CFW080065TGN4A1Z</a>	YES	2	10.4 X 6.5 X 8.5	5	1,331	V1
	5	10	<a href="#">CFW080100TGN4A1Z</a>	YES	2	10.4 X 6.5 X 8.5	5	1,516	V1
	7.5	13	<a href="#">CFW080130TGN4A1Z</a>	YES	3	13.4 X 8.5 X 8.5	18	1,856	V1
	10	16	<a href="#">CFW080160TGN4A1Z</a>	YES	3	13.4 X 8.5 X 8.5	18	2,144	V1
	15	24	<a href="#">CFW080240TGN4A1Z</a>	YES	4	13.4 X 8.5 X 8.5	18	2,876	V1
	20	30	<a href="#">CFW080300TGN4A1Z</a>	YES	4	13.4 X 8.5 X 8.5	18	3,474	V1
	575V	THREE PHASE - 575V							
1		1.7	<a href="#">CFW080017THN1A1Z</a>	YES		13.4 X 8.5 X 8.5	18	1,259	V1
2		3	<a href="#">CFW080030THN1A1Z</a>	YES		13.4 X 8.5 X 8.5	18	1,421	V1
3		4.3	<a href="#">CFW080043THN1A1Z</a>	YES		13.4 X 8.5 X 8.5	18	1,485	V1
5		7	<a href="#">CFW080070THN1A1Z</a>	YES		13.4 X 8.5 X 8.5	18	1,767	V1
7.5		10	<a href="#">CFW080100THN1A1Z</a>	YES		13.4 X 8.5 X 8.5	18	2,077	V1
	10	12	<a href="#">CFW080120THN1A1Z</a>	YES		13.4 X 8.5 X 8.5	18	2,388	V1

**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.

## CFW08 – Accessories

	Description	Catalog Number	List Price	Multiplier Symbol
Keypads	NEMA 4 Remote Keypad (requires MIS-CFW08-RS & cable)	<a href="#">HMI-CFW08-RS</a>	\$135	V1
	Remote Keypad Interface	<a href="#">MIS-CFW08-RS</a>	\$64	V1
	Keypad Cover	<a href="#">TCL-CFW08</a>	\$13	V1
Keypad Cables	3.3 ft Remote Keypad Cable	<a href="#">CAB-RS-1</a>	\$23	V1
	6.6 ft Remote Keypad Cable	<a href="#">CAB-RS-2</a>	\$31	V1
	10 ft Remote Keypad Cable	<a href="#">CAB-RS-3</a>	\$41	V1
	16 ft Remote Keypad Cable	<a href="#">CAB-RS-5</a>	\$51	V1
	25 ft Remote Keypad Cable	<a href="#">CAB-RS-7.5</a>	\$62	V1
	33 ft Remote Keypad Cable	<a href="#">CAB-RS-10</a>	\$72	V1
Options	RS-232 Serial Comm. Module (mounted in place of keypad)	<a href="#">KCS-CFW08</a>	\$97	V1
	RS-232/485 Converter (mounted externally)	<a href="#">MIW-02</a>	\$221	V1
	PC Communication Kit	<a href="#">KSD-CFW08</a>	\$124	V1
	Interface for RS-485 Communication	<a href="#">KRS-485-CFW08</a>	\$186	V1
	Easy Mounting Kit - Size 1	<a href="#">KFIX-CFW08-M1</a>	\$18	V1
	Easy Mounting Kit - Size 2	<a href="#">KFIX-CFW08-M2</a>	\$18	V1
	NEMA 1 Kit - IP20 - Size 1	<a href="#">KN1-CFW08-M1</a>	\$28	V1
	NEMA 1 Kit - IP20 - Size 2	<a href="#">KN1-CFW08-M2</a>	\$38	V1
	DIN Rail Mounting Base - Size 1	<a href="#">KMD-CFW08-M1</a>	\$10	V1
	Remote Station-includes Start PB, Stop PB, 1-NC and 1-NO contact block, Potentiometer 5k and legends (22mm) replaces CFW-REM	<a href="#">CSW-SP3PBS</a>	\$460	V1
	Remote Station-includes Start PB, Stop PB, 1-NC and 1-NO contact block, Potentiometer 5k and legends (30mm) replaces CFW-REM	<a href="#">CSW30-SP3PBS</a>	\$535	V1
	120VAC Digital Input Adaptor Board (4 inputs)	<a href="#">KAC-120-CFW08</a>	\$145	V1
	Local Keypad + 24V power supply	<a href="#">KDC-24V</a>	\$156	V1



# Variable Frequency Drives CFW08



## CFW08 – DB Resistors 10% Duty Cycle

CFW08

Motor Volts	Motor HP	For Use with CFW08 Plus Model Number:	Catalog Number	OHMS	WATTS	List Price	Multiplier Symbol
230 V	2	CFW080073BDN1A1Z or A5Z	CFDB39-224	39	224	<b>\$183</b>	<b>V1</b>
	3	CFW080100BDN1A1Z or A5Z	CFDB27-298	27	298	<b>\$183</b>	<b>V1</b>
	5	CFW080160TDN1A1Z or A5Z	CFDB22-373	22	373	<b>\$183</b>	<b>V1</b>
	7.5	CFW080220TDN1A1Z or A5Z	CFDB15-560	15	560	<b>\$319</b>	<b>V1</b>
	10	CFW080280TDN1A1Z or A5Z	CFDB10-746	10	746	<b>\$319</b>	<b>V1</b>
460 V	1	CFW080027TGN1A1Z or A5Z	CFDB120-298	120	298	<b>\$183</b>	<b>V1</b>
	2	CFW080043TGN1A1Z or A5Z	CFDB120-298	120	298	<b>\$183</b>	<b>V1</b>
	3	CFW080065TGN1A1Z or A5Z	CFDB100-224	100	224	<b>\$183</b>	<b>V1</b>
	5	CFW080100TGN1A1Z or A5Z	CFDB47-746	47	746	<b>\$319</b>	<b>V1</b>
	7.5	CFW080130TGN1A1Z or A5Z	CFDB33-746	33	746	<b>\$319</b>	<b>V1</b>
	10	CFW080160TGN1A1Z or A5Z	CFDB33-746	33	746	<b>\$319</b>	<b>V1</b>
	15	CFW080240TGN1A1Z or A5Z	CFDB22-1119	22	1119	<b>\$481</b>	<b>V1</b>
20	CFW080300TGN1A1Z or A5Z	CFDB18-1492	18	1492	<b>\$638</b>	<b>V1</b>	

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

### 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	
	ENC61800-3		
	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		

