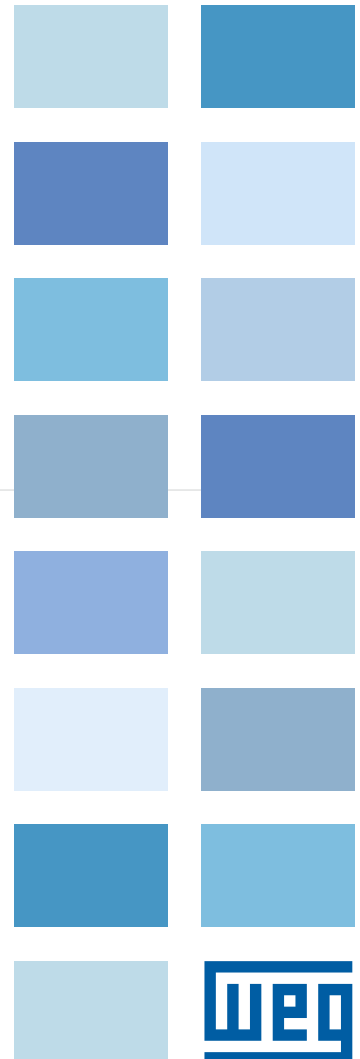
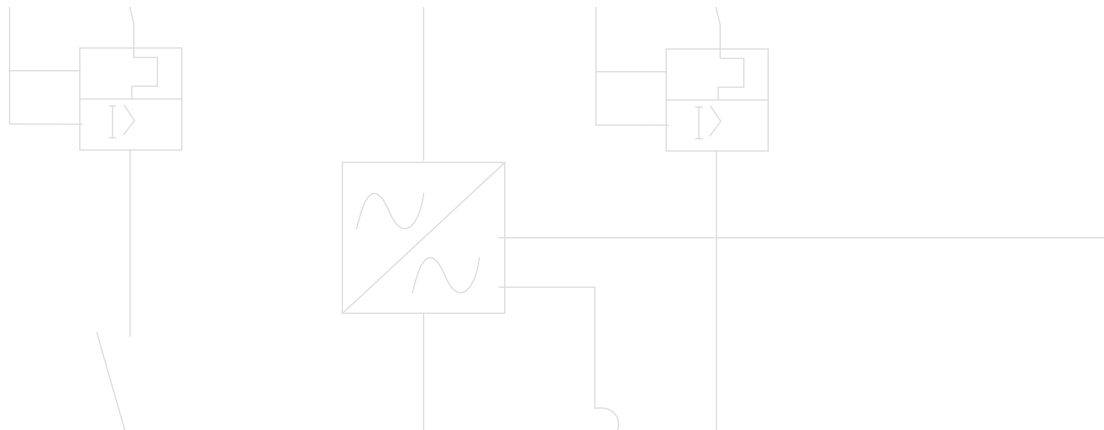
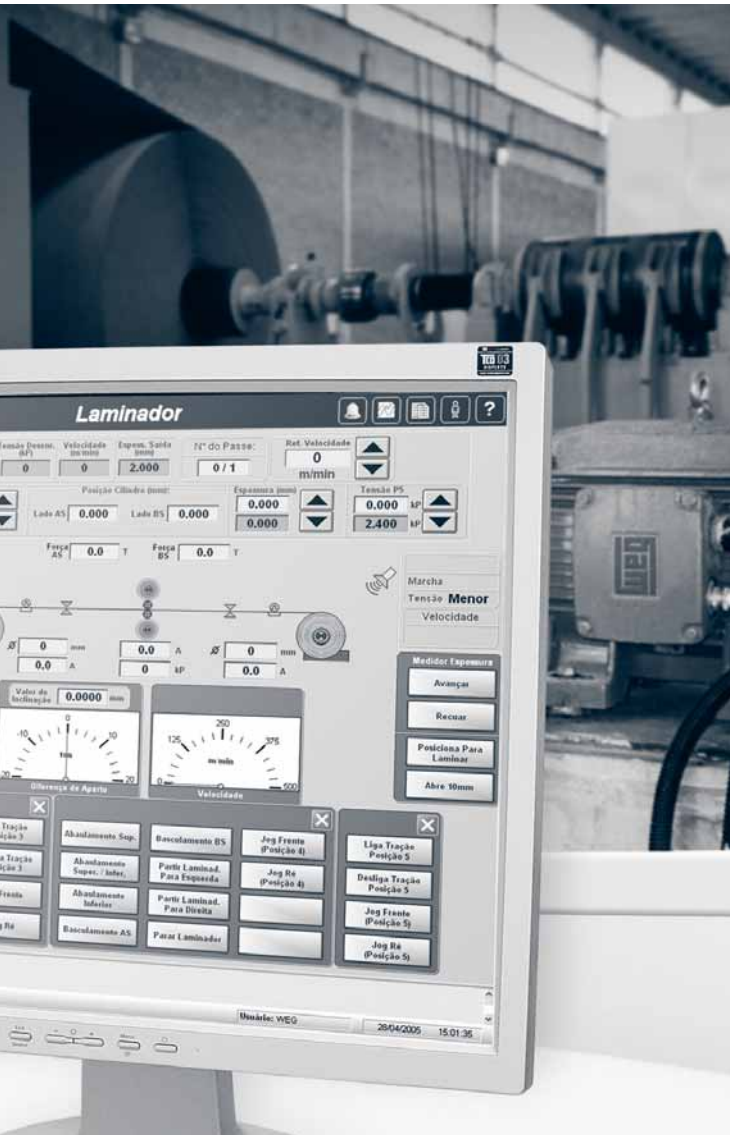


Automation

Frequency Inverters



Frequency Inverters



Frequency inverters are used to control three-phase induction motors in a wide variety of industrial applications. The WEG Frequency Inverter series is state-of-the-art technology in motor control with a modern design, high compactness, a great number of available features, and easily installed and operated. These products have features with high-software optimization and are easily set through a simple Man-Machine Interface. Comprise functions and resources that permit the protection and control of electric motors with extreme ease and efficiency. Works with scale or vectorial control.

Applications

- Centrifugal pumps
- Dosing / Process pumps
- Fans / Exhausts
- Agitators / Mixers
- Conveyor belts
- Roller Tables
- Dryers
- Rotative filters
- Cutting and Welding machines
- Extruding machines
- Granulators / Pellet mills
- Compressors
- Injection and Blow Molding
- Calenders / Extruders
- Laminators
- Paper Rewinders
- Cement kilns
- Coaters



CFW-08



Characteristics

- Power 0.25 to 20 HP
- Voltage 200 to 480 V
- V/F (scalar) or Sensorless Vector Control)
- Sinusoidal PWM Modulation
- EMC Filters (optional built-in)
- Compact dimensions
- RTU Modbus Communication and Profibus DP (optional);
- PID Regulator
- Multi-pump controller
- Remote Keypad

Specification Table

Supply Voltage	CFW08 DRIVERS					Maximum Applicable Motor		Dimensions (mm)			Weight (Kg)					
	Supply	Model	Dynamic Braking	Current (A)	Size	Voltage (V)	Power		H	W		D				
							HP	KW								
200/220/230/240V	Single-Phase	CFW080016S2024ESZ	No	1,6	1	230	0,25	0,18	151	75	131	1,0				
		CFW080026S2024ESZ	No	2,6	1		0,5	0,37								
		CFW080040S2024ESZ	No	4,0	1		1,0	0,75								
	Single-Phase or Three-Phase	CFW080016B2024ESZ	No	1,6	1		0,33	0,25	151	75	131	1,0				
		CFW080026B2024ESZ	No	2,6	1		0,5	0,37								
		CFW080040B2024ESZ	No	4,0	1		1,0	0,75								
		CFW080073B2024ESZ	Yes	7,3	2*		2,0	1,5					200	115	150	2,0
		CFW0800100B2024ESZ	Yes	10,0	2*		3,0	2,2								
	Three-Phase	CFW080070T2024ESZ	No	7,0	1		2,0	1,5	151	75	131	1,0				
		CFW0800160T2024ESZ	Yes	16,0	2*		5,0	3,7	200	115	150	2,0				
		CFW0800220T2024ESZ	Yes	22,0	3*		7,5	5,5	203	143	165	2,5				
		CFW0800280T2024ESZ	Yes	28,0	4*		10,0	7,5	290	185	196	6,0				
		CFW0800330T2024ESZ	Yes	33,0	4*		12,5	9,5								
380/400/415/440/460/480V	Three-Phase	CFW080010T3848ESZ	No	1,0	1	400/415	0,25	0,18	151	75	131	1,0				
		CFW080016T3848ESZ	No	1,6	1		0,5	0,37								
		CFW080026T3848ESZ	No	2,6	1		1,0	0,75								
		CFW080040T3848ESZ	No	4,0	1		2,0	1,5	200	115	150	2,0				
		CFW080027T3848ESZ	Yes	2,7	2*		1,5	1,1								
		CFW080043T3848ESZ	Yes	4,3	2*		2,0	1,5								
		CFW080065T3848ESZ	Yes	6,5	2*		3,0	2,2								
		CFW0800100T3848ESZ	Yes	10,0	2*		6,0	4,5								
		CFW0800130T3848ESZ	Yes	13,0	3*		7,5	5,5	203	143	165	2,5				
		CFW0800160T3848ESZ	Yes	16,0	3*		10,0	7,5								
		CFW0800240T3848ESZ	Yes	24,0	4*		15,0	19,0	290	182	196	6,0				
		CFW0800300T3848ESZ	Yes	30,0	4*		20,0	15,0								
		Three-Phase	CFW080010T3848ESZ	No	1,0		1	440/460	0,33	0,25	151	75	131	1,0		
	CFW080016T3848ESZ		No	1,6	1	0,75	0,55									
	CFW080026T3848ESZ		No	2,6	1	1,5	1,1									
	CFW080040T3848ESZ		No	4,0	1	2,0	1,5		200	115	150	2,0				
	CFW080027T3848ESZ		Yes	2,7	2*	1,5	1,1									
	CFW080043T3848ESZ		Yes	4,3	2*	2,0	1,5									
	CFW080065T3848ESZ		Yes	6,5	2*	4,0	3,0									
	CFW0800100T3848ESZ		Yes	10,0	2*	6,0	4,5									
	CFW0800130T3848ESZ		Yes	13,0	3*	7,5	5,5		203	143	165	2,5				
	CFW0800160T3848ESZ		Yes	16,0	3*	10,0	7,5									
	CFW0800240T3848ESZ	Yes	24,0	4*	15,0	11,3	290	182	196	6,0						
CFW0800300T3848ESZ	Yes	30,0	4*	20,0	15,0											
575V	Three-Phase	CFW080017T5060ESZ	Yes	1,7	3*	575	1,0	0,75	203	143	165	2,5				
		CFW080030T5060ESZ	Yes	3,0	3*		2,0	1,5								
		CFW080043T5060ESZ	Yes	4,3	3*		3,0	2,2								
		CFW080070T5060ESZ	Yes	7,0	3*		5,0	3,7								
		CFW080100T5060ESZ	Yes	10,0	3*		7,5	5,5								
		CFW080120T5060ESZ	Yes	12,0	3*		10,0	7,5								

NOTE: The maximum motor powers listed above were based on WEG II and IV-pole motors. For motor with different number of poles (ex.: VI and VIII poles), other voltages (ex.: 220V, 380V and 460V) and/or motors from other manufacturers, specify the VSD through the rated motor current.

CFW-09



Characteristics

- Power: 1.5 to 1500 HP;
- Voltage: 220/230; 380-480; 500-690V;
- Sensorless Vector Control or with encoder
- V/F (scalar) Control
- Voltage Vector-Control
- Optimal Braking;
- 32-bit RISC Microcontroller
- Regenerative inverter
- EMC Filters
- FieldBus Communication,
- DeviceNet Drive Profile, Metasys N2 Johnson Controls and RTU Modbus (optional);
- Standard Degree of Protection IP 20 to 500 HP
- Card with PLC functions and position control
- Optimal Flux: solution for constant torque loads, eliminating forced ventilation or motor derating (Patent Pending)



Sizing Table

Supply Voltage	CFW-09 INVERTER		Rated Current (A)		Voltage (V)	Maximum Applicable Motor				Size
	Part Number CFW-09...	Built-in Dynamic	CT* VT*			Constant Torque		Variable Torque		
		Braking				KW	HP	KW	HP	
220 / 230V	0006 T 2223 E S	Yes	6 ²		230	1.1	1.5	1.1	1.5	1
	0007 T 2223 E S		7 ²			1.5	2	1.5	2	
	0010 T 2223 E S		10 ²			2.2	3	2.2	3	
	0013 T 2223 E S		13			2.2	3	2.2	3	
	0016 T 2223 E S		16			3.7	5	3.7	5	
	0024 T 2223 E S		24			5.5	7.5	5.5	5.5	
	0028 T 2223 E S		28			7.5	10	7.5	10	
	0045 T 2223 E S		45			11	15	11	15	
	0054 T 2223 E S	Optional Built-in Dynamic	54	68		15	20	18.5	25	2
	0070 T 2223 E S		70	86		18.5	25	22	30	
	0086 T 2223 E S		86	105		22	30	30	40	
	0105 T 2223 E S		105	130		30	40	37	50	
0130 T 2223 E S	130		150	37	50	45	60			
380 / 400 / 415 / 440 / 460 / 480V	0003 T 3848 E S	Yes	3.6		400/415	1.1	1.5	1.1	1.5	1
	0004 T 3848 E S		4			1.5	2	1.5	2	
	0005 T 3848 E S		5.5			2.2	3	2.2	3	
	0009 T 3848 E S		9			4	5.5	4	5.5	
	0013 T 3848 E S		13			5.5	7.5	5.5	7.5	
	0016 T 3848 E S		16			7.5	10	7.5	10	
	0024 T 3848 E S		24			11	15	11	15	
	0030 T 3848 E S	Optional Built-in	30	36		15	20	18.5	25	2
	0038 T 3848 E S		38	45		18.5	25	22	30	
	0045 T 3848 E S		45	54		22	30	22	30	
	0060 T 3848 E S		60	70		30	40	37	50	
	0070 T 3848 E S		70	86		37	50	45	60	
	0086 T 3848 E S		86	105		45	60	55	75	
	0105 T 3848 E S	External DB Module	105	130		55	75	75	100	3
	0142 T 3848 E S		142	174		75	100	90	125	
	0180 T 3848 E S		180			90	125	90	125	
	0211 T 3848 E S		211			110	150	110	150	
	0240 T 3848 E S		240			132	175	132	175	
	0312 T 3848 E S		312			160	220	160	220	
	0361 T 3848 E S		361			200	270	200	270	
0450 T 3848 E S	450		250	340	250	340				
0515 T 3848 E S	515		300	400	300	400				
0600 T 3848 E S	600		315	430	315	430				
0100 T 6669 E S	External		100	127	90	125	110	150	8 E	
0127 T 6669 E S			127	179	110	150	160	220		
0179 T 6669 E S			179		160	220	160	220		
0225 T 6669 E S		225	259	200	275	250	350	10 E		
0259 T 6669 E S		259	305	250	350	280	370			
0305 T 6669 E S		305	340	280	370	315	430			
0340 T 6669 E S		340	428	315	430	400	500			
0428 T 6669 E S		428		400	500	400	500			

*CT = Constant Torque; VT = Variable Torque

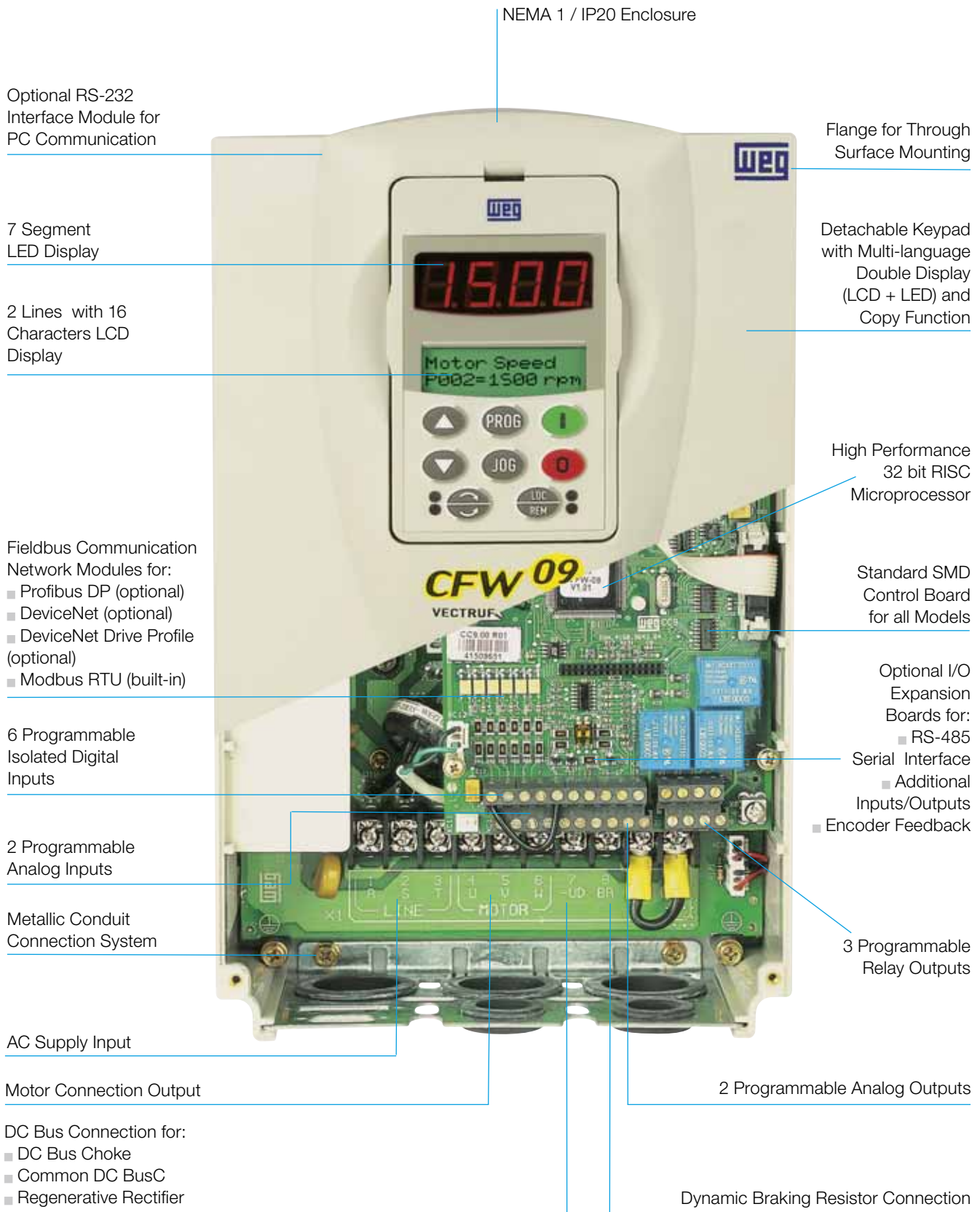
Note: 1 - Recommended Motors 230/400VAC are based on WEG motors II and IV pole w21 line.

2 - The 6, 7 and 10A/230V models can be single-phase powered without output current de-rating Enclosure: IP20 Protected Chassis for all sizes.

3 - Special Voltages 500 / 525 / 550 / 575 / 600 available under request.



CFW-09, Complete, Flexible and Compact Product



NEMA 1 / IP20 Enclosure

Optional RS-232 Interface Module for PC Communication

Flange for Through Surface Mounting

7 Segment LED Display

Detachable Keypad with Multi-language Double Display (LCD + LED) and Copy Function

2 Lines with 16 Characters LCD Display

High Performance 32 bit RISC Microprocessor

Fieldbus Communication Network Modules for:

- Profibus DP (optional)
- DeviceNet (optional)
- DeviceNet Drive Profile (optional)
- Modbus RTU (built-in)

Standard SMD Control Board for all Models

6 Programmable Isolated Digital Inputs

Optional I/O Expansion Boards for:

- RS-485
- Serial Interface
- Additional Inputs/Outputs
- Encoder Feedback

2 Programmable Analog Inputs

3 Programmable Relay Outputs

Metallic Conduit Connection System

AC Supply Input

Motor Connection Output

2 Programmable Analog Outputs

DC Bus Connection for:

- DC Bus Choke
- Common DC BusC
- Regenerative Rectifier

Dynamic Braking Resistor Connection

CFW-10



Characteristics

- Power: 0.25 HP to 3 HP
- Voltage: 110 to 240 V
- Single-phase (supply)
- Excellent Cost-Benefit
- Digital Signal Processor (DSP) Control
- Sinusoidal PWM Modulation
- Latest generation IGBT Modules
- Silent motor operation
- Compact dimensions
- High Starting Torque
- Tactile membrane keypad interface
- PID Regulator
- Built-in EMC Filters (optional)

Specification Table

Line Voltage	VARIABLE SPEED DRIVES CFW-10				Maximum Applicable Motor			Dimensions (mm)			Weight (kg)			
	Supply	Model	In Output (A)	Size	Voltage (V)	Power		H	W	D				
						HP	kW							
110-127	Single-phase	CFW100016S1112PSZCFW	1,6	1	220	0,25	0,18	132	100	82	0,9			
		100026S1112PSZ	2,6	1		0,5	0,37							
		CFW100040S1112PSZ	4,0	2		1,0	0,75							
200-240		Single-phase	CFW100016S2024PSZ	1,6		1	220	0,25	0,18	132	100	82	0,9	
			CFW100026S2024PSZ	2,6		1		0,5	0,37					
			CFW100040S2024PSZ	4,0		1		1,0	0,75					
		Three-phase	CFW100073S2024PSZ	7,3		2		220	2,0	1,50	161	115	122	1,5
			CFW100100S2024PSZ	10,0		3			3,0	2,20				1,8
			CFW100016T2024PSZ	1,6		1			220	0,25	0,18	132	95	121
	CFW100026T2024PSZ		2,6	1	0,5	0,37								
	CFW100040T2024PSZ		4	1	1,0	0,75								
	CFW100073T2024PSZ		7,3	1	161	115				122	2,0	1,5		
CFW1000100T2024PSZ	10	2	3,0	2,2										
CFW1000152T2024PSZ	15,2	3	5,0	3,70										

NOTES: The maximum motor powers listed above were based on WEG II and IV-pole motors.

For motors with different numbers of poles (ex.: VI and VIII-poles), other voltages (ex.: 230V) and/or motors from other manufacturers, specify the VSD through the motor rated current.



CFW-11



The CFW11 frequency inverter incorporates Plug and Play technology. It automatically recognizes and configures the accessories and options used, enabling easy installation and safe operation while eliminating manual configuration.

Characteristics

- Power supply: 1 to 60 HP
- Voltage: 200/240; 380/480V
- Man-Machine Interface with graphic display, backlight, and softkey
- Plug and Play
- USB
- Memory Card
- I/Os digital and analog card modules
- ProfiBus communication, DeviceNet, CANopen, EtherNet / IP, RTU Modbus
- Intelligent inverter thermal management with wide range of protection
- protection with failure and alarm warnings
- Normal Duty and Heavy Duty ratings to adapt optimally to all kinds of loads



Specification Table

Supply Voltage	Model	Line Supply	Overload	Rated Current (A)	Overload Current		Motor Power		Size	Weight (kg)	Dimensions (mm)						
					60s	3s	hp	kW			Height	Width	Depth				
200 - 240V	CFW11 0006 B 2	Single-phase or Three-phase	Normal	6	6,6	9	1,5	1,1	A	5,7	247	145	227				
			High	5	7,5	10	1	0,75									
	CFW11 0007 T 2	Three-phase	Normal	7	7,7	10,5	2	1,5		5,7							
			High	5,5	8,3	11	1,5	1,1									
	CFW11 0007 B 2	Single-phase or Three-phase	Normal	7	7,7	10,5	2	1,5		6,1							
			High	7	10,5	14	2	1,5									
	CFW11 0010 T 2	Three-phase	Normal	10	11	15	3	2,2		5,7							
			High	8	12	16	2	1,5									
	CFW11 0010 S 2	Single-phase	Normal	10	11	15	3	2,2		6,1							
			High	10	15	20	3	2,2									
	CFW11 0013 T 2	Three-phase	Normal	13	14,3	19,5	4	3	6,1								
			High	11	16,5	22	3	2,2									
	CFW11 0016 T 2		Normal	16	17,6	24	5	3,7	6,3								
			High	13	19,5	26	4	3									
	CFW11 0024 T 2		Normal	24	26,4	36	7,5	5,5	B	9,1	293	190	227				
			High	20	30	40	6	4,5									
	CFW11 0028 T 2		Normal	28	30,8	42	10	7,5		7,5							
			High	24	36	48	7,5	5,5									
	CFW11 0033 T 2		Normal	33,5	36,9	50,3	12,5	9,2		10							
			High	28	42	56	10	7,5									
CFW11 0045 T 2	Normal	45	49,5	67,5	15	11	C	18,9		378				220	293		
	High	36	54	72	12,5	9,2											
CFW11 0054 T 2	Normal	54	59,4	81	20	15		15									
	High	45	67,5	90	15	11											
CFW11 0070 T 2	Normal	70	77	105	25	18,5		20									
	High	56	84	112	20	15											
CFW11 0086 T 2	Normal	86	94,6	129	30	22		D	32,5		504	300	305				
	High	70	105	140	25	18,5											
CFW11 0105 T 2	Normal	105	115,5	157,5	40	30			30								
	High	86	129	172	30	22											
380 - 480V	CFW11 0003 T 4	Three-phase	Normal	3,6	3,96	5,4	2		1,5	A				5,7	247	145	227
			High	3,6	5,4	7,2	2		1,5								
	CFW11 0005 T 4		Normal	5	5,5	7,5	3		2,2					5,9			
			High	5	7,5	10	3		2,2								
	CFW11 0007 T 4		Normal	7	7,7	10,5	4		3					6,1			
			High	5,5	8,3	11	3		2,2								
	CFW11 0010 T 4		Normal	10	11	15	6	4	6,3								
			High	10	15	20	6	4									
	CFW11 0013 T 4		Normal	13,5	14,9	20,3	7,5	5,5	B		9,1	293	190	227			
			High	11	16,5	22	6	4									
	CFW11 0017 T 4		Normal	17	18,7	25,5	10	7,5		9,7							
			High	13,5	20,3	27	7,5	5,5									
	CFW11 0024 T 4		Normal	24	26,4	36	15	11		10,4							
			High	19	28,5	38	12,5	9,2									
	CFW11 0031 T 4		Normal	31	34,1	46,5	20	15		C	18,9				378	220	293
			High	25	37,5	50	15	11									
	CFW11 0038 T 4		Normal	38	41,8	57	25	18,5			25						
			High	33	49,5	66	20	15									
	CFW11 0045 T 4		Normal	45	49,5	67,5	30	22	30								
			High	38	57	76	25	18,5									
CFW11 0058 T 4	Normal	58,5	64,4	87,8	40	30	37										
	High	47	70,5	94	30	22											
CFW11 0070 T 4	Normal	70,5	77,6	105,8	50	37	D	32,5	504		300	305					
	High	61	91,5	122	40	30											
CFW11 0088 T 4	Normal	88	96,8	132	60	45		45									
	High	73	109,5	146	50	37											

Inverter Comparison

		MODELS			
		CFW-08	CFW-09	CFW-10	CFW11
Power Supply	Single-phase Voltage	200 - 240V:200/220/230/240 V (+10%, -15%)	-	110-127V: 110/127 V (+10 %, -15%) 200-240V: 200/220/230/240 V (+10%, -15%)	200 - 240V: 200/220/230/240 V (+10%, -15%)
	3-phase voltage	200 - 240V:200/220/230/240 V (+10%, -15%)	220 - 230V:220/230V (+10%, -15%)	-	200-240V: 200/220/230/240 V (+10%, -15%) 380-480V: 380/400/415/440/460/480V (+10%, -15%)
		380 - 480V : 380/400/415/440/460/480V (+10%, -15%)	380 - 480V : 380/400/415/440/460/480V (+10%, -15%)		
		500 - 600V:500/525/575/600V (+10%, -15%)	500 - 600V:500/525/575/600V (+10%, -15%) 500 - 690V:500/525/575/600/690V (+10%, -15%)		
	Frequency	50 / 60 Hz +/- 2 Hz (48 ... 62Hz)			
	Cos φ (displacement factor)	Greater than 0,98			
Power factor	-				
Degree of Protection	Inverter	Nema 1 on mechanical models 3 and 4 and IP 20 on mechanical models 1 and 2	NEMA 1 / IP20 (Size 1...8) IP20 (Size 9...10)	IP 20	IP21 for mechanical models A, B, and C; IP20/NEMA 1 for mechanical model D IP21/Nema 1 for mechanical models A, B, and C with conduit kit (KN1X-01) Mechanical models 1 and 2. IP21/Nema 1 for mechanical model D with IP21 kit
		Nema 1 with additional metallic conduit connection kit			
	Remote MMI	NEMA12 Parallel, remote MMI (IP54) (MMI-CFW08-RP)	NEMA 4x / IP 56	-	-
		NEMA12 Serial, remote MMI (IP54) (MMI-CFW08-RS)			
Flange mounted	Size 2,3 and 4	Yes	-	Yes (external part with IP54 Degree of protection)	
Braking IGBT	Size 2,3 and 4	mechanical models 1 and 2 standard, optional for mechanical models 8 and 10	Mec 2 e 3	Yes	
Control	Supply type	Switched Mode Power Supply			
	Control type	V/F (scalar) linear or quadratic	V/F (scalar) VVV (Voltage Vector-Control WEG)	V/F (scalar) linear or quadratic	V/F (scalar) VVV (Voltage Vector-Control WEG)
		Sensorless vector control (Voltage Vector-Control WEG)	Sensorless vector (without encoder)		Sensorless vector (without encoder)
			Vector with encoder		Vector with encoder
Control	Switching	Available frequencies 2,5 / 5,0 / 10 / 15 kHz	Available frequencies 1,25/ 2,5 / 5,0 / 10 kHz	Available frequencies 2,5 até 15 kHz	Available frequencies 1,25/ 2,5 / 5,0 / 10 kHz
	Frequency variation	Band Range : 0 ... 300 Hz	0...204Hz (Supply frequency 60Hz)	Band Range : 0 ... 300 Hz	0 to 204 Hz (for 60 Hz net)
			0...170Hz (Supply frequency 50Hz)		0 a 170 Hz (for 50 Hz net)
			Above 204 Hz (please contact WEG)		Above 204 Hz (please contact WEG)
Performance	Permitted overload	150% for 60 seconds every 10 minutes	CT: 150% for 60 seconds every 10 minutes VT: 110 to 120% for 60 seconds every 10 minutes	150% for 60 seconds every 10 minutes (1,5 x Inom.)	Overload Duty
	Efficiency	Greater than 0,95 %	98%	Greater than 0,95 %	98%
	Speed control	V/F Setting: 1% Rated Speed with Slip Compensation	V/F Setting: 1% Rated Speed with Slip Compensation	V/F Setting: 1% Rated Speed with Slip Compensation	V/F Setting: 1% Rated Speed with Slip Compensation
		Resolution: 0.01 Hz (f<100Hz); 0.1 Hz(f<100Hz) (keypad reference)	Resolution; 1 rpm (keypad reference) regulation rate = 1:20	Resolution: 0.01 Hz (f<100Hz); 0.1 Hz(f<100Hz) (keypad reference)	Resolution; 1 rpm (keypad reference) regulation rate = 1:20
	Control VVV	Regulation; 0.5% of the rated speed.	Regulation; 0.5% of the rated speed.	-	Regulation; 0.5% of the rated speed.
		Resolution; 1 rpm (keypad reference)	Resolution; 1 rpm (keypad reference) regulation rate = 1:30	-	Resolution; 1 rpm (keypad reference) regulation rate = 1:30
	Speed control	-	Regulation; 0.5% of the rated speed.	-	Regulation; 0.5% of the rated speed.
		-	Resolution; 1 rpm (keypad reference) regulation rate = 1:100	-	Resolution; 1 rpm (keypad reference) regulation rate = 1:100
	Speed control	-	10 bit analog reference setting: +/-0.01% Rated Speed; with 14-bit analog reference +/-0.01% Rated Speed; with digital reference	-	10 bit analog reference setting: +/-0.01% Rated Speed; with 14-bit analog reference +/-0.01% Rated Speed; with digital reference
		-	Rate: Up to 0	-	Rate: Up to 0
Torque Control	-	Setting: +/- 10% (sensorless) +/- 5% (encoder) motor Rated torque	-	Setting: +/- 10% (encoder) motor Rated torque	
	-	Setting: 0...150% (encoder) motor Rated torque	-	Setting: 0...150% (encoder) motor Rated torque	

Inverter Comparison

		MODELS			
		CFW-08	CFW-09	CFW-10	CFW11
Inputs and Outputs	Digital	4 programmable isolated digital inputs with NPN or PNP logic (DI1...DI4)	6 programmable inputs, optoisolated, bidirectional, 24Vdc	4 programmable isolated inputs	6 programmable, optoisolated, bidirectional, 24 Vdc inputs
		PTC isolated inputs via AI and AI2	2 outputs with reverser contacts (NO/NC) and 1 output with NO contact, programmable		-
		Programmable isolated inputs via AI1 and AI2 with NPN or PNP logic (DI5 and DI6)			-
	Relay	Programmable 2-output relay, reversible contacts (NO/NC)	2 programmable outputs, NO/NC contacts	1 programmable output, reversal NO/NC contacts	-
			2 programmable outputs, NO/NC contacts		3 outputs with reversal contact (NO/NC), 240 Vac/1A
	Analog	2 isolated analog inputs 0...10V/ 4...20mA / -10 ...10V, 8 bits	2 programmable differential inputs, 10 bits	1 isolated input 0...10 V, 0...20 mA ou 4...20 mA	2 12-bit programmable differential inputs
1 isolated input 0 ...10V, (0)4 ... 20mA, 8 bits		2 programmable outputs, 0 a 10V, 11 bits	2 12-bit programmable differential inputs.		
		2 programmable outputs bipolares (-10...10V), 14 bits (optional)	2 programmable outputs isoladas, 11 bits (optional)		2 programmable bipolar outputs (-10...10V), 14 bits (optional)
				2 programmable outputs isoladas, 12 bits (optional)	
Communication	Serial Interface	RS-232 or RS-485	RS - 232 via serial kit KCS - CFW09	RS-232 (accessory)	
			RS - 485, isolated, via EBA or EBB RS-485 cards (accessory)	RS-485 (accessory)	
	FieldBus networks	Profibus DP unit for communication (optional) and DeviceNet or CANopen or RTU ModBus (built-in)	RTU ModBus via Profibus DP, DeviceNet or DeviceNet Profile serial interface via additional KFB kit	CAN and RS-485 (CANopen, DeviceNet and Modbus) interface, CAN (CANopen / DeviceNet) interface	
Safety	Protections	Overvoltage and undervoltage in intermediary circuit			
		Overheating in the inverter and motor		Inverter overheating	Overheating in the inverter and motor
		Output overcurrent			
		Motor overload (i x t)			
		Hardware error, external defect or serial communication error	Braking resistor overload	Hardware Error, external fault.	Dynamic braking resistor overload
		Output short-circuit and output ground short-circuit	CPU error (Watchdog)	EPROM output short-circuit	EPROM output short-circuit
		Programming error and self-adjusting error	Incremental encoder failure	Programming Error	Encoder signal and reading failure
			Output short-circuit		IGBT arm de-saturation failure, braking IGBT failure and overheating and overload of the IGBT
			Output ground short-circuit		Phase failure – output ground
			External Error		4...20mA signal failure
			Autodiagnosing and programming error		Motor overspeed failure
			Serial communication failure		Cooler and dissipater substitution alarm and speed failure
	Inverted motor / Encoder connection		Inverted motor/ encoder connection		
	Power Supply Phase Fault		Power Supply phase fault		
	MMI-CFW09 interface failure		Man-Machine Interface failure		
Ambient conditions	Temperature	0...40 °C (up to 50 C with reduction of 2%/° C in the output current)	0...40 °C (up to 50 C with reduction of 2%/° C in the output current)	0...50 °C (without reduction in the output current)	-10...50°C (up to 60°C) with output current reduction (2% / °C above 50°C)
	Humidity	5...90% without condensation	5...90% without condensation	5...90% without condensation	5...90% without condensation
	Altitude	0...1000 m (up to 4000 m with 1% / 100 m in the output current)	0...1000 m (up to 4000 m with 1% / 100 m in the output current)	0...1000 m (up to 4000 m with 1% / 100 m in the output current)	0...1000m (up to 4000m) with output current reduction (1% for each 100m above 1000m)
Man-Machine Interface (MMI)	Command	On/off, Setting Parameters (general programming)			
		Increase / decrease frequency			
		JOG, inversion of rotation direction and local / remote potentiometer selection for speed control	Variable speed potentiometer	JOG, inversion of rotation direction and local / remote	
	Monitoring (reading)	Motor output frequency			
		Intermediate circuit voltage	Inverter status	Intermediate circuit voltage	Inverter status
		Frequency proportional value	Digital input and output status	Speed proportional value	State Dis / Dos
		Heat sink temperature	Motor speed	Heat sink temperature	Motor Speed (rpm)
		Motor output current (A)			
		Motor output voltage (V)			
		Error messages / output power defects			
		Load torque			
		Inverter status	Relay output status		
				Hours on / standby	
				kWh counter	
				Hours	
				current failure alarm	
				information on last 10 failures	
				Built-in	
Functions	Rheostatic braking	Built-in in frame size 2,3,4	Built-in in frame size 1,2 optional in frame size 3,4,5,6,7	-	Built-in in frame size 1,2 optional in frame size 3,4,5,6,7
	CC braking	Built-in	Built-in	Built-in	Built-in
	Optimal Braking	-	Built-in	Built-in	Built-in
	+24 Vdc source available	-	-	-	24 Vc + / - 20% , 500 mA
	PID	Built-in	Built-in	Built-in	Built-in

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