

CFW701 HVAC-R

Variable Speed Drives



Full HVAC-R Capability

WEG, a leading supplier of drive technology, as well as automation solutions, has enhanced the line of variable frequency drives for heating, ventilation, air conditioning and refrigeration. The CFW701 was designed with the features and functions required for HVAC systems, with the same reliability, robustness and energy-efficient control known in our industrial lines. WEG now brings this technology to hospitals, airports, office buildings, hotels, shopping centers or other similar facilities.



Complete Range

- 1.1 to 2.2 kW (1.5 to 3 HP): 200-240 V ac - Single-phase
- 1.1 to 55 kW (1.5 to 75 HP): 220-240 V ac - Three-phase
- 1.5 to 132 kW (2 to 175 HP): 380-480 V ac - Three-phase
- 1.5 to 110 kW (2 to 150 HP): 500-600 V ac - Three-phase

Friendly Programming

- Oriented start-up: step by step
- Easy and intuitive operation
- Parameter groups: shortcut to the parameters of interest
- Engineering units, such as: °C, °F, bar, mbar, psi, m³, gal, kW, rpm and others



Highlights

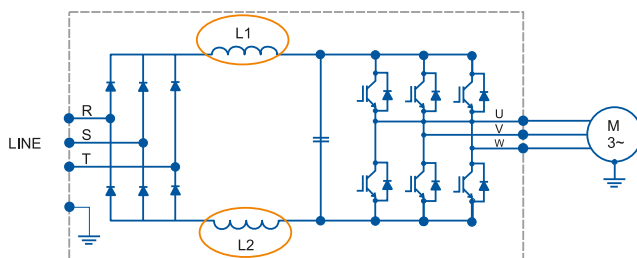


Conformal Coated (3C2)

- VSD lifetime is extended: protection against chemically active substances, related to contamination from the atmosphere

Harmonic Mitigation with Inductor

- No line reactance required
- No restrictions for installation, minimum impedance is not required
- Meets IEC 61000-3-12 requirements with built-in DC link choke



Safety Stop

In Accordance with EN 61800-5-2, EN ISO 13849-1, IEC 62061, IEC 61508 Parts 1-7, EN 50178, IEC 60204-1, Cat. 3/pL d acc. and SIL CL2 acc.)

- With this option when the safety circuit is tripped by external causes, the IGBT firing circuit is deactivated, thus the power drive system will not provide energy to the motor, which will not generate torque.



Communication Protocols as Standard

- BACnet MS/TP
- Metasys N2
- Modbus-RTU



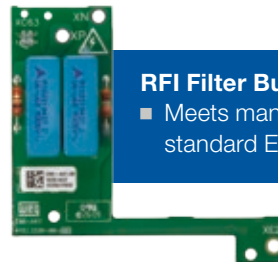
Thermal Management

- It is possible to monitor heat sink and inside air temperature thus ensuring protection to critical components e.g. IGBTs and control board
- Fans installed closed to heatsink are controlled based on the temperature of power modules
- Readings of fan operation hours can be analyzed through parameters as well as alarm or fault messages are displayed
- Easy removal of fans for easy maintenance and/or replacement



PLC Function Built-In

Programming flexibility combined with network and I/O make the CFW701 a powerful part of an integrated system. (free WLP software at www.weg.net)



RFI Filter Built-In

- Meets mandatory harmonic current standard EN 61000-3-12



IP55/NEMA12 Protection Degree

Excellent protection against contact with internal live parts, avoiding the entrance of water coming from jets.

Special Functions



Bypass

Using one of its relay outputs the CFW701 allows the motor to be started cross the line. External circuit is needed for this operation.



Sleep / Wake-Up Mode

Prevents the operation of the motor at low speeds for a amount of time programmed. Wake-up mode determines the time the drive is restarted.



Fire Mode

This function makes the drive inhibit its internal faults, making the motor run during adverse conditions without stopping the process.



Dry Pump

Prevents the pump from running with no load.



Advanced PID - 3 x PID

Three PID control loops: one controls the process by itself (the one the motor is running) and two are additional PID loops for use to control independent process variables (it might be for the control of external process not related to what the main PID loop is handling). This eliminates the use of an additional PID controller.



PTC

For monitoring PTC sensor.



Filter Maintenance Alarm

Warns about the need to replace the filter.



Broken Belt

Monitors motor torque and prevents the drive from running with no load in case of a broken belt.



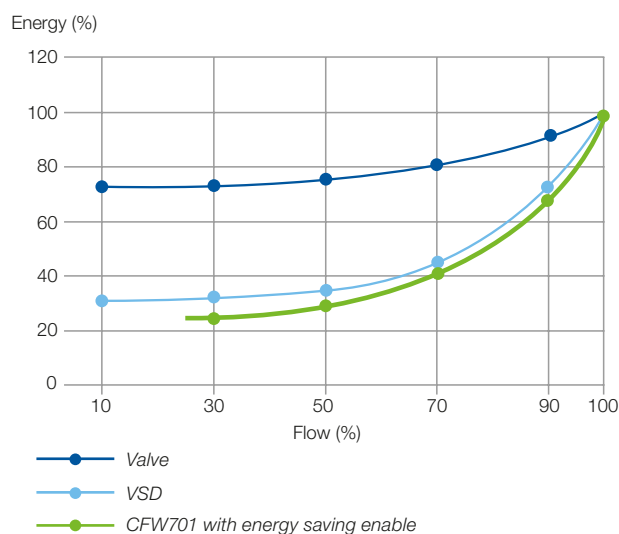
Short Cycle Protection

Prevents a compressor / motor from being switched on and off in short periods of time.



Energy Saving

Depending on the motor speed and load conditions, flux is reduced decreasing losses and therefore efficiency is improved.



Energy Saving

The future depends on conscious and sustainable actions as the world grows fast and for this, modern automated solutions are required. Technology is already present in our lives, and, in order to produce the energy that drives all the innovations, somebody has to foot the bill. What are you doing to grow sustainably?



42% of the energy consumed worldwide today is used by industry.



68% of the energy used in industry is consumed by electric motors.

Save even more energy by using the CFW701 HVAC-R together with the W22 Premium motors, which have the best efficiency in the market. This solution can help you **reduce power consumption by approximately 15%**, thus contributing to sustainable development of the planet.

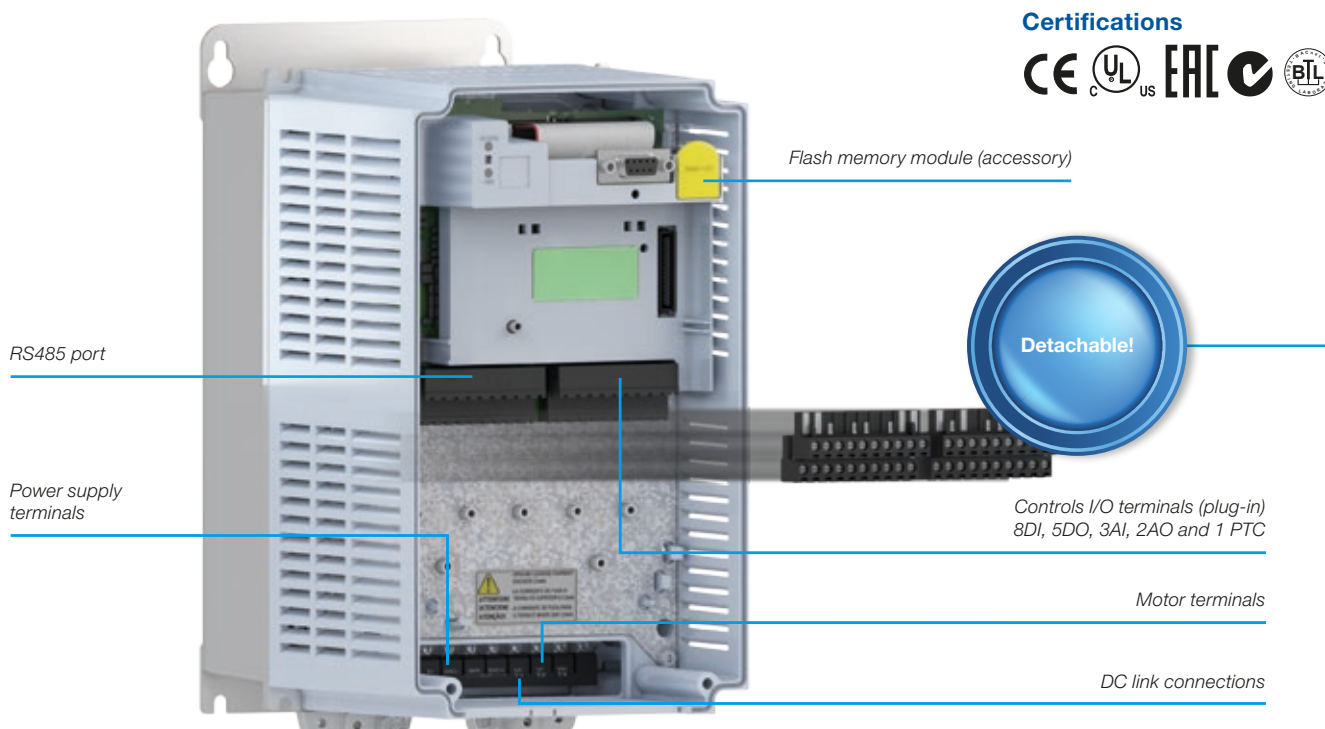


Use energy in a conscious way

Go Green!

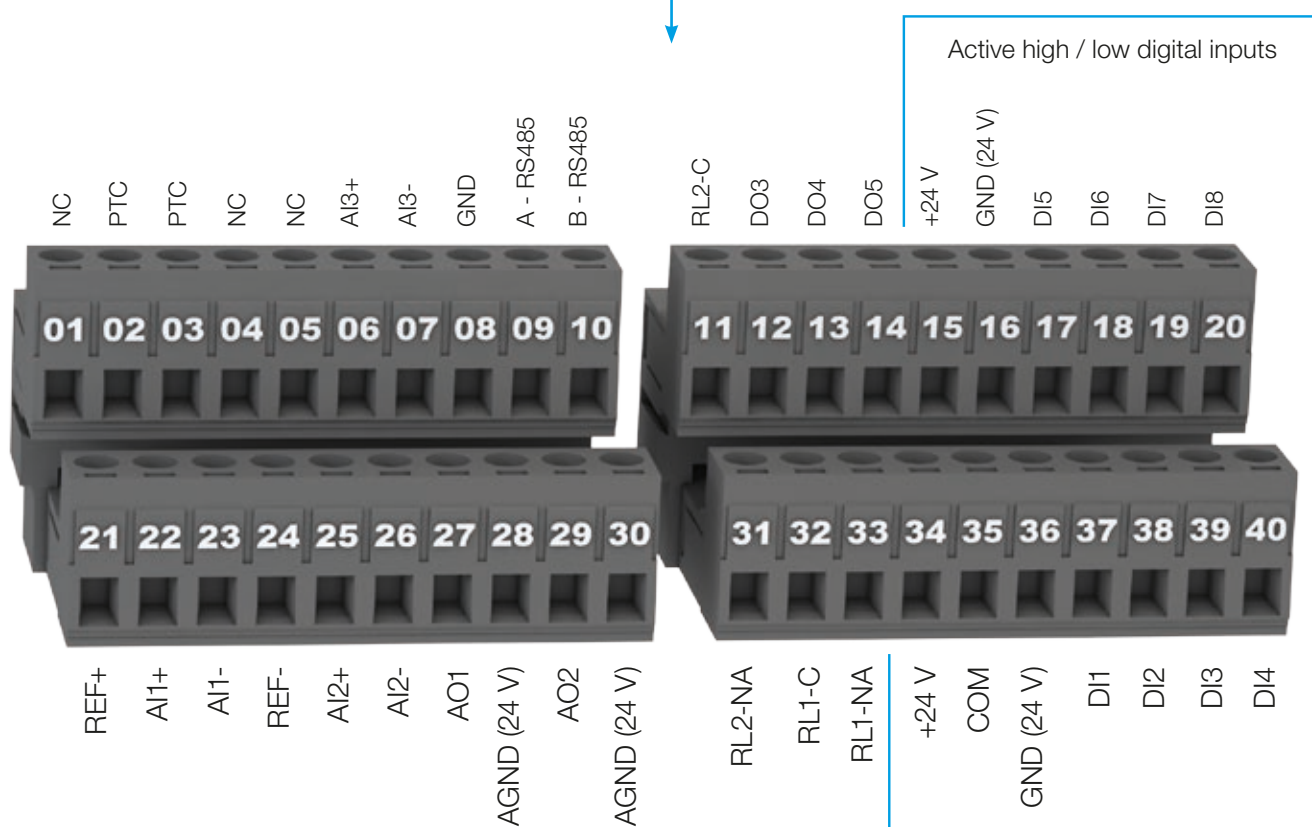
Calculate on our website the payback of the investment achieved by the use of frequency inverters in your application: www.weg.net

Simplicity

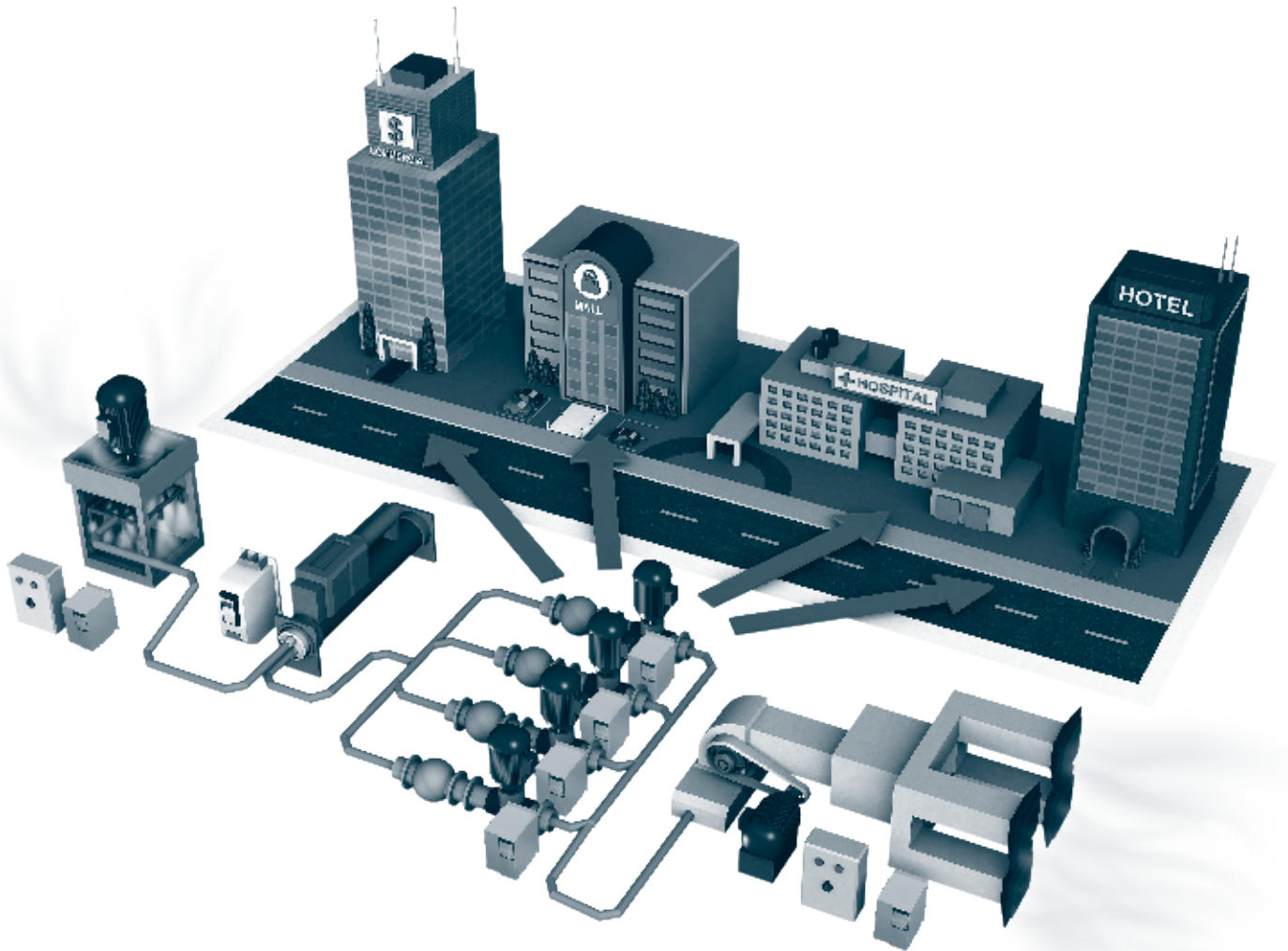


Technical Features

Features Included in the Standard Product

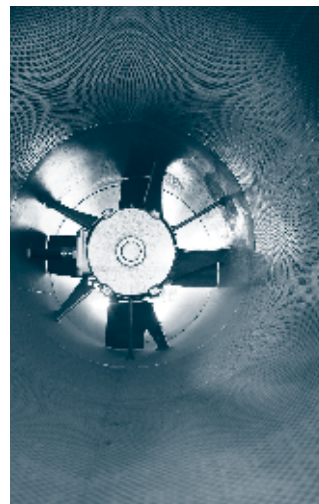


HVAC-R Systems



Applications

- | | | |
|----------------------------|--------------------------|------------------|
| ■ Hospitals | ■ Hotels and restaurants | ■ Condensers |
| ■ Airports | ■ Commercial building | ■ Evaporators |
| ■ Malls | ■ Residential | ■ Cooling towers |
| ■ Stadiums | ■ Pumps and fans | ■ Boilers |
| ■ Schools and universities | ■ Compressors | ■ Chillers |



Product Coding

The CFW701 code identifies its construction characteristics, nominal current, voltage range and options. Using the product code, you may select the CFW701 required for your application simply and quickly.

Product and series	Drive identification				Braking option	Protection degree	Conducted emission level	Disconnect switch	Safety stop	External control voltage	Hardware revision	Software version
	Frame	Rated current	Supply phases	Rated voltage								
CFW701	A	03P6	T	4	DB	20	C3 ¹⁾²⁾	DS	Y1	W1	---	---
CFW701	Check table below				DB = with dynamic braking							
	NB = without dynamic braking											
	20 = IP20				N1 = NEMA1							
	21 = IP21 (not available for frame size E)											
	N12 = IP55 / NEMA12 (not available for frame size A)				C3 = meets category 3 of IEC 61800-3 standard, with internal RFI filter							
	Blank = without Disconnect Switch											
	DS = with Disconnect Switch (available only with IP55 / NEMA12 versions)				Y1 = with STO (Safe Torque Off) function, meets EN 954-1/ISO 13849-1, category 3							
	Blank = without STO (Safe Torque Off) function											
	Y1 = with STO (Safe Torque Off) function, meets EN 954-1/ISO 13849-1, category 3				Blank = without 24 V dc power supply	W1 = with 24 V dc power supply						
	Blank = without 24 V dc power supply											
	W1 = with 24 V dc power supply				Blank = standard							
	Blank = standard											
	Hx = special hardware											
Blank = standard				Sx = special software								
Sx = special software												

Frame size	Output current	Input	Supply voltage	Braking feature	Protection degree	Conducted emission level ¹⁾²⁾			
A	06P0 = 6.0 A	S = single-phase	2 = 200...240 V ac	DB	20 = IP20 21 = IP21 N1 = NEMA1	C3			
	07P0 = 7.0 A								
	10P0 = 10.0 A								
A	07P0 = 7.0 A	T = three-phase	2 = 200...240 V ac	DB	20 = IP20 21 = IP21 N1 = NEMA1				
	10P0 = 10.0 A								
	13P0 = 13.0 A								
	16P0 = 16.0 A								
B	24P0 = 24.0 A				20 = IP20 21 = IP21 N1 = NEMA1 N12 = IP55/NEMA12				
	28P0 = 28.0 A								
	33P5 = 33.5 A								
C	45P0 = 45.0 A				T = three-phase		2 = 200...240 V ac	DB	21 = IP21 N1 = NEMA1 N12 = IP55/NEMA12
	54P0 = 54.0 A								
	70P0 = 70.0 A								
D	86P0 = 86.0 A			NB or DB					20 = IP20 N1 = NEMA1 N12 = IP55/NEMA12
	0105 = 105.0 A								
E	0142 = 142.0 A								
	0180 = 180.0 A								
	0211 = 211.0 A								
A	03P6 = 3.6 A	T = three-phase	4 = 380...480 V ac	DB					20 = IP20 21 = IP21 N1 = NEMA1
	05P0 = 5.0 A								
	07P0 = 7.0 A								
	10P0 = 10.0 A								
	13P5 = 13.5 A								
B	17P0 = 17.0 A							20 = IP20 21 = IP21 N1 = NEMA1 N12 = IP55/NEMA12	
	24P0 = 24.0 A								
	31P0 = 31.0 A								
C	38P0 = 38.0 A				DB		21 = IP21 N1 = NEMA1 N12 = IP55/NEMA12		
	45P0 = 45.0 A								
	58P5 = 58.0 A								
D	70P5 = 70.0 A			NB or DB			20 = IP20 N1 = NEMA1 N12 = IP55/NEMA12		
	88P0 = 88.0 A								
E	0105 = 105.0 A							20 = IP20 N1 = NEMA1 N12 = IP55/NEMA12	
	0142 = 142.0 A								
	0180 = 180.0 A								
	0211 = 211.0 A								

Product Coding

Frame size	Rated output current	Supply phases	Supply voltage	Braking feature	Protection class	RFI emission level ⁽¹⁾⁽²⁾
B	02P9 = 2.9 A	T = three-phase	5 = 500...600 V ac	DB	20 = IP20 21 = IP21 N1 = NEMA1	C3
	04P2 = 4.2 A					
	07P0 = 7.0 A					
	10P0 = 10.0 A					
	12P0 = 12.0 A					
	17P0 = 17.0 A					
D	22P0 = 22.0 A			NB or DB	21 = IP21 N1 = NEMA1	
	27P0 = 27.0 A					
	32P0 = 32.0 A					
	44P0 = 44.0 A					
E	53P0 = 53.0 A				20 = IP20 N1 = NEMA1	
	63P0 = 63.0 A					
	80P0 = 80.0 A					
	0107 = 107.0 A					
	0125 = 125.0 A					
	0150 = 150.0 A					

Notes: 1) RFI filter.

Categories:

- Category C1: inverters with voltages below 1,000 V, for use in the first environment.
- Category C2: inverters with voltages below 1,000 V, with plugs or mobile installation, when used in the first environment, must be installed and started-up by a qualified professional.
- Category C3: inverters with voltages below 1,000 V, developed for use in the second environment and not designed for use in the first environment.

Environments:

- First environment: environments that include household installations, such as buildings directly connected, without intermediate transformer, to a low-voltage power supply grid, which supplies buildings used for domestic purposes.
- Second environment: includes all the buildings other than those directly connected to a low-voltage power supply grid, which supplies buildings used for domestic purposes.

For the RFI filters of external installations, refer to the CFW701 user manual.

2) For C2 or C1 categories, refer to Appendix B of User's Manual to get that information and installation instruction.

Complete range
for **HVAC-R**
applications



Drive Ratings

The correct way to sizing a VFD is to match its output current with the motor rated current. However, the tables below present the approximate motor power for each VFD model. Use the motor power ratings below only as a guide. Motor rated currents may vary with speed and manufacturer.

Note: motor power stated on these tables are based on IEC and NEMA standard for IV poles motor.

Motor Voltages 220 V and 230 V

Power supply		Model	Normal Duty (ND)	IEC	NEMA	Heavy Duty (HD)	IEC	NEMA
				50 Hz 220 V	60 Hz 230 V		50 Hz 220 V	60 Hz 230 V
			A	kW	HP		kW	HP
200-240 V	10	CFW701 A 06P0 S2	6	1.1	1.5	5	1.1	1
		CFW701 A 07P0 S2	7	1.5	2	7	1.5	2
		CFW701 A 10P0 S2	10	2.2	3	10	2.2	3
	1/30	CFW701 A 06P0 B2	6	1.1	1.5	5	1.1	1
		CFW701 A 07P0 B2	7	1.5	2	7	1.5	2
		CFW701 A 07P0 T2	7	1.5	2	5.5	1.1	1
	30	CFW701 A 10P0 T2	10	2.2	3	8	1.5	2
		CFW701 A 13P0 T2	13	3	3	11	2.2	3
		CFW701 A 16P0 T2	16	4	5	13	3	3
		CFW701 B 24P0 T2	24	5.5	7.5	20	5.5	5
		CFW701 B 28P0 T2	28	7.5	10	24	5.5	7.5
		CFW701 B 33P5 T2	33.5	9.2	10	28	7.5	10
		CFW701 C 45P0 T2	45	11	15	36	9.2	10
		CFW701 C 54P0 T2	54	15	20	45	11	15
		CFW701 C 70P0 T2	70	18.5	25	56	15	20
		CFW701 D 86P0 T2	86	22	30	70	18.5	25
		CFW701 D 0105 T2	105	30	40	86	22	30
220-230 V	30	CFW701 E 0142 T2	142	37	50	115	30	40
		CFW701 E 0180 T2	180	55	60	142	37	50
		CFW701 E 0211 T2	211	55	75	180	55	60

Motor Voltages 380 V and 460 V

Power supply		Model	Normal Duty (ND)	IEC	NEMA	Heavy Duty (HD)	IEC	NEMA
				50 Hz 415 V	60 Hz 460 V		50 Hz 415 V	60 Hz 460 V
			A	kW	HP		kW	HP
380-480 V	30	CFW701 A 03P6 T4	3.6	1.5	2	3.6	1.5	2
		CFW701 A 05P0 T4	5	2.2	3	5	2.2	3
		CFW701 A 07P0 T4	7	3	3	5.5	2.2	3
		CFW701 A 10P0 T4	10	4	5	10	4	5
		CFW701 A 13P5 T4	13.5	5.5	7.5	11	4	7.5
		CFW701 B 17P0 T4	17	7.5	10	13.5	5.5	7.5
		CFW701 B 24P0 T4	24	11	15	19	9.2	10
		CFW701 B 31P0 T4	31	15	20	25	11	15
		CFW701 C 38P0 T4	38	18.5	25	33	15	20
		CFW701 C 45P0 T4	45	22	30	38	18.5	25
		CFW701 C 58P5 T4	58.5	30	40	47	22	30
		CFW701 D 70P5 T4	70.5	37	50	61	30	40
		CFW701 D 88P0 T4	88	45	60	73	37	50
		CFW701 E 0105 T4	105	55	75	88	45	60
		CFW701 E 0142 T4	142	75	100	115	55	75
		CFW701 E 0180 T4	180	90	150	142	75	100
		CFW701 E 0211 T4	211	110	175	180	90	150

Motor Voltages 500 V and 600 V

Power supply		Model	Normal Duty (ND)	IEC	NEMA	Heavy Duty (HD)	IEC	NEMA
				50 Hz 525 V	60 Hz 575 V		50 Hz 525 V	60 Hz 575 V
			A	kW	HP		kW	HP
500-600 V	30	CFW701 B 02P9 T5	2.9	1.5	2	2.7	1.5	2
		CFW701 B 04P2 T5	4.2	2.2	3	3.8	2.2	2
		CFW701 B 07P0 T5	7	4	5	6.5	4	5
		CFW701 B 10P0 T5	10	5.5	7.5	9	5.5	7.5
		CFW701 B 12P0 T5	12	7.5	10	10	5.5	7.5
		CFW701 B 17P0 T5	17	11	15	17	11	15
		CFW701 D 22P0 T5	22	15	20	19	11	15
		CFW701 D 27P0 T5	27	18.5	25	22	15	20
		CFW701 D 32P0 T5	32	22	30	27	18.5	25
		CFW701 D 44P0 T5	44	30	40	36	22	30
		CFW701 E 53P0 T5	53	37	50	44	30	40
		CFW701 E 63P0 T5	63	45	60	53	37	50
		CFW701 E 80P0 T5	80	55	75	66	45	60
		CFW701 E 0107 T5	107	75	100	90	55	75
		CFW701 E 0125 T5	125	90	125	107	75	100
		CFW701 E 0150 T5	150	110	150	122	90	100



Accessories and Optional

The CFW701 VSD was developed to meet the hardware configurations required by a wide range of applications. The table below presents the available options:

Feature	Type ¹⁾	Description	Optional item code ²⁾	Accessory code	Available
Braking IGBT	Optional	Used in high-inertia applications for the fast stop of the motor by means of an external braking resistance. Resistance not included. For the calculation of the braking resistance, refer to the CFW701 user manual	DB	-	Factory installation only
Degree of protection	Accessory	For an IP20 product according to IEC standards. This version does not come with a KIP21X or KN1X kit inside the product box	20 ³⁾	-	User installation ³⁾
		For a IP21 product according to IEC standards. This version comes with a KIP21X kit inside the product box but not installed on the CFW701	21 ⁴⁾	KIP21A-01 (frame size A) KIP21B-01 (frame size B) KIP21C-01 (frame size C) KIP21D-01 (frame size D)	User installation ⁴⁾
		For a NEMA1 product according to NEMA standards. This product comes with a KN1X kit inside the product box but not installed on the CFW701	N1 ⁵⁾	KN1A-02 (frame size A) KN1B-02 (frame size B) KN1C-02 (frame size C) KN1E-01 (frame size D - 105 A and 142 A) KN1E-02 (frame size D - 180 A and 211 A)	User installation ⁵⁾
	Optional	For a IP55 or NEMA12 protection degree according to standard	N12	-	Factory installation only
Switch-disconnector	Optional	A switch-disconnector built-in the product	DS	-	Factory installation only
Safety stop	Optional	After the activation of the safety stop function, the PWM pulses in the output of the drive are blocked. It is according to ISO 13849-1 and EN 954-1 / category 3	Y1	-	Factory installation only
24 V dc external power supply for feeding control circuit	Optional	It is a board on the power circuit containing a DC converter with a 24 V dc input and outputs suitable to supply voltage to the control circuit of CFW701	W1	-	Factory installation only
Relay output module	Accessory	A relay outputs expansion module - CCK-01, which has two relay outputs with reversible contacts and capacity of 1 A / 250 V for each contact	-	CCK-01	User installation
Flash memory module	Accessory	Used to download the programming of a CFW701 to others (copy function)	-	MMF-02	User installation
Mounting frame for remote keypad	Accessory	Used to transfer the operation to the panel door or machine console. Maximum distance of 10 m. Degree of protection IP56	-	RHMIF-03	User installation
Cables for remote keypad	Accessory	Used to connect the CFW701 to the remote keypad (CAB-RS-XM)	-	CAB-RS-XM, where cables with lengths (X) of 1, 2, 3, 5, 7.5 and 10 meters	User installation

Notes: 1) Optional = hardware resources added to the CFW701 in the manufacturing process. Accessory = hardware resource requested as a separated item.

2) Request the product according to the Product Coding table.

3) If you have N1 or 21 version, the VSD can be used as IP20 without installing the KIP21X and/or KN1X kit.

4) Frame size E it is IP21 as standard without KIP21X kit.

5) Frame size D it is NEMA1 as standard without KN1X kit.

Dimensions and Weights

Frame size IP20	Height in. (mm)	Width in. (mm)	Depth in. (mm)	Weight lbs. (kg)
A	9.73 (247)	5.71 (145)	8.94 (227)	13.9 (6.3)
B	11.53 (293)	7.46 (190)	8.94 (227)	22.9 (10.4)
C	14.88 (378)	8.67 (220)	11.52 (293)	45.2 (20.5)
D	19.84 (504)	11.81 (300)	12.00 (305)	71.8 (32.6)
E	24.4 (620)	13.2 (335)	14.1 (358)	143.3 (65.0)

Frame size NEMA1	Height in. (mm)	Width in. (mm)	Depth in. (mm)	Weight lbs. (kg)
A	12.02 (305)	5.71 (145)	8.94 (227)	15.7 (7.1)
B	13.82 (351)	7.46 (190)	8.94 (227)	24.9 (11.3)
C	17.64 (448.1)	8.67 (220)	11.52 (293)	47.2 (21.4)
D	19.84 (504)	11.81 (300)	12.00 (305)	71.8 (32.6)
E	¹⁾	13.2 (335)	14.1 (358)	²⁾

Frame size IP55 / NEMA 12	Height in. (mm)	Width in. (mm)	Depth in. (mm)	Weight lbs. (kg)
B	13.82 (351)	7.46 (190)	8.94 (227)	24.9 (11.3)
C	17.64 (448.1)	8.67 (220)	11.52 (293)	47.2 (21.4)
D	19.84 (504)	11.81 (300)	12.00 (305)	71.8 (32.6)
E	¹⁾	13.2 (335)	14.1 (358)	²⁾



Notes: 1) 28.94 (735) = 0142 T2, 0105 T4, 0142 T4 and T5 models 32.63 (828.9) = 0180 T2/T4, 0211 T2/T4.

2) 147.97 (67.12) = 0142 T2, 0105 T4, 0142 T4 and T5 models 152.78 (69.3) = 0180 T2/T4, 0211 T2/T4.

Free Software

SuperDrive G2

Software application for programming, control and monitoring of WEG VSD.

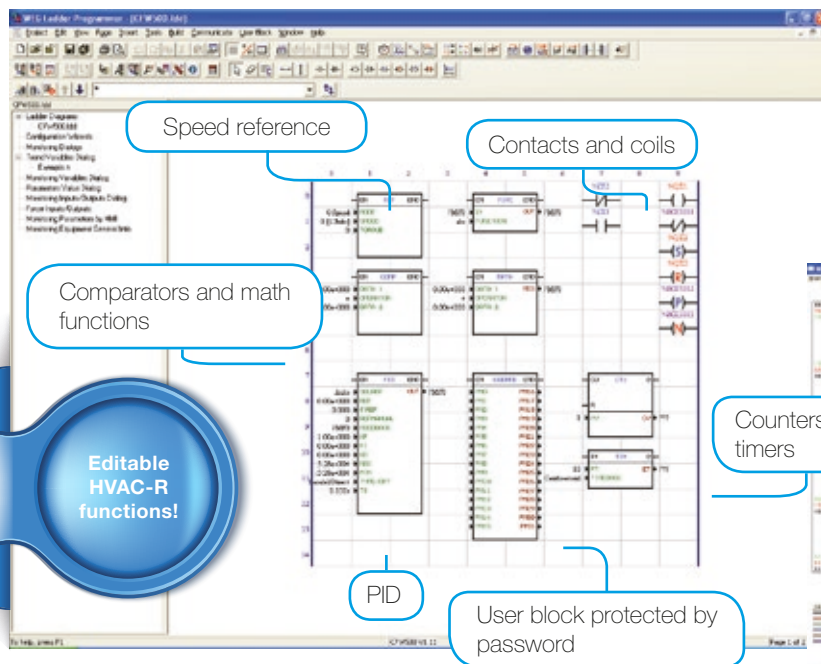


Trend Function

- Online graphic monitoring of parameters/variables
- Possibility to export an image with the respective graph based upon the selected period

SoftPLC - Built-in on the Standard Product

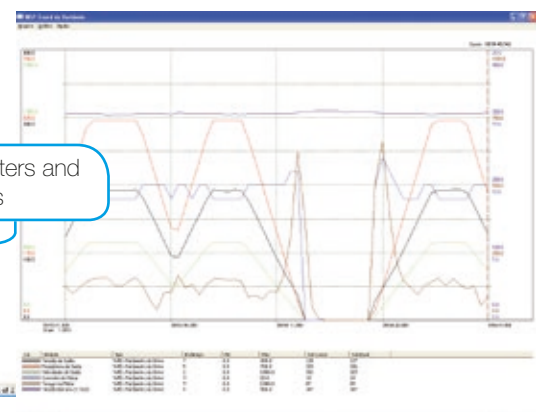
Functionalities of a PLC available as standard, allowing the creation of applications. The WLP software and the SoftPLC functionality are a smart and simple way to make your CF701, motor and application work together.



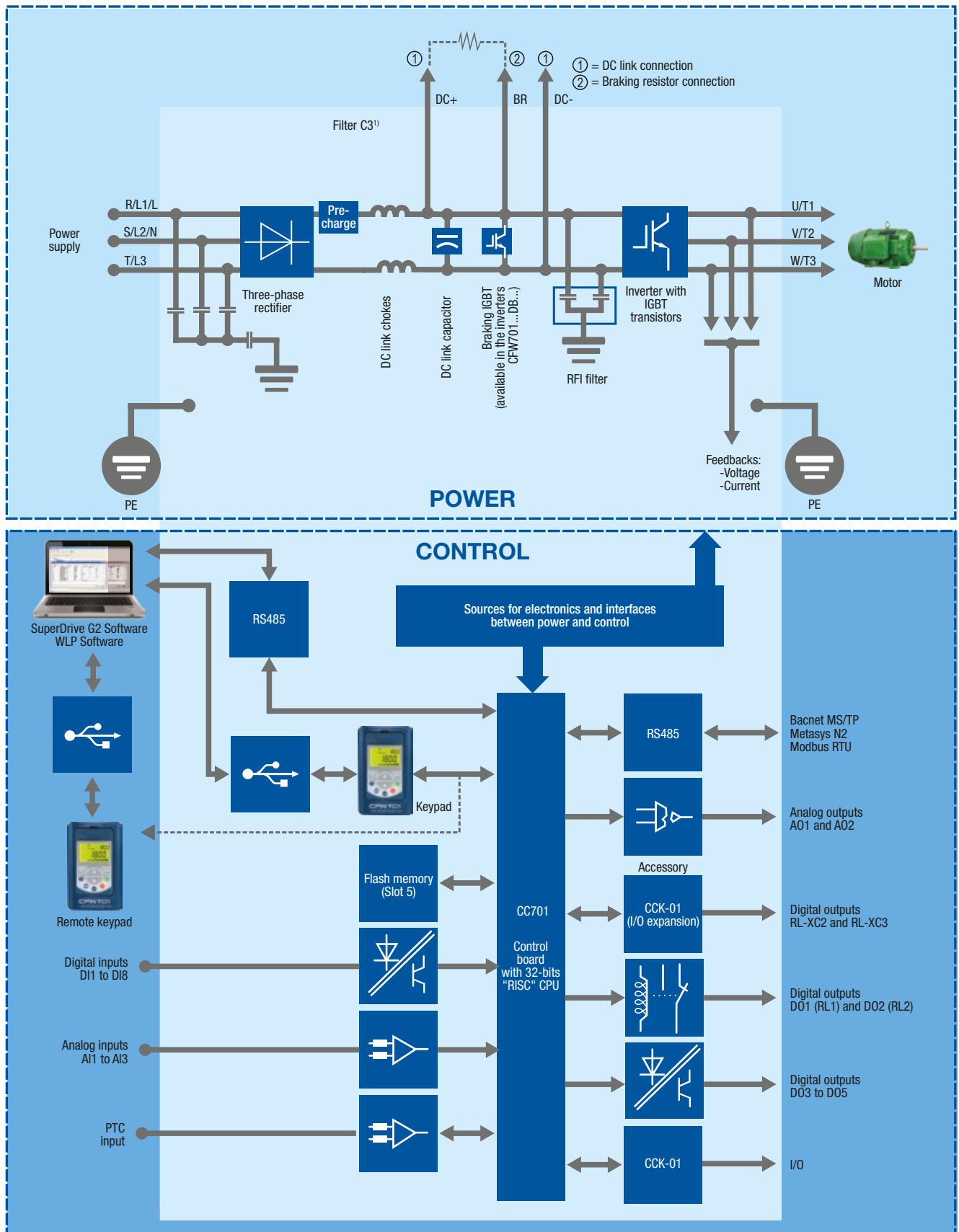
Easy programming: ladder

Trace Function

- Online graphic monitoring of parameters/variables
- Configurable up to six channels



Block Diagram



Technical Data

Power supply	Voltage and power range	1-phase, 200-240 V ac (+10% - 15%) 1.5 to 3 HP (1.1 to 2.2 kW)	
		3-phase, 200-240 V ac (+10% - 15%) 1.5 to 75 HP (1.1 to 55 kW)	
		3-phase, 380-480 V ac (+10% - 15%) 2 to 150 HP (1.5 to 110 kW)	
		3-phase, 500-600 V ac (+10% - 15%) 2 to 150 HP (1.5 to 110 kW)	
	Frequency	50...60 Hz (+/-2%_48 to 63 Hz)	
Control	Displacement factor	>0.98	
	Efficiency	>97%	
	Power factor	0.94 for three-phase input at nominal conditional 0.70 for single-phase input at nominal conditional	
	Frequency range	0 to 3.4 x motor rated frequency (0403). The rated frequency is programable up to 300 Hz (V/Hz) and 120 Hz (vector mode) Switching Frequency data must be observed for speed limits	
	Switching frequency	Standard: 5 kHz (A, B, C, D frames)	
		2.5 kHz for all models frame E 380-480 V	
		2.5 kHz for frame E models 142/180 Amps (ND) 200-240 V	
		2.5 kHz for frame E model 211 Amps (ND/HD) 200-240 V	
	Available options for 2.5/5/10 kHz (check for derating)		
	Aceleration time	0 to 999s	
Deceleration time	0 to 999s		
Normal Duty (ND)	110% for 1min every 10min		
Heavy Duty (HD)	150% for 1min every 10min		
Environment	Temperature	Frase 1: -10 a 50 °C (14 a 122 °F) para la mayoría de los modelos. Para Ta (temperatura de funcionamiento) de cada modelo, consulte el Manual del Usuario, tabla B.4	
		Frase 2: Para temperatura alrededor del convertidor mayor que Ta y menor que 60 °C (modelos de los tamaños A, B, C y D), 40 °C (modelos con grado de protección IP55) y 55 °C (modelos del tamaño E) es necesario aplicar reducción de la corriente de 2% para cada grado Celsius arriba de Ta	
	Humidity	5 to 90% with no condensation	
	Altitude	0 to 1,000 meters with no derating	
Up to 4,000 meters with current reduction of 1% for each 100 meters above 1,000 meters			
Braking methods	Dynamic braking	Available as standard for frame sizes A, B, C and D for 460 V and D for 660 V. For frame size E “DB” models has to be used. An extra resistor must be fitted in for dynamic braking capability	
	Optimal braking	There is no need for braking resistor	
	DC braking	DC current applied to motor	
Performance	V/F	Speed control	Regulation: 1% of rated speed
			Speed variation range 1:20
	Voltage vector WW		Regulation: 1% of rated speed
			Speed variation range 1:30
I/Os	Inputs	Digital	8 x isolated bidirectional 24 V
		Analog	2 x +/-10 V, 11 bits + signal (diferencial) or 0/4...20 mA, 11 bits (diferencial)
			Impedance: 400 kW for voltage signal / 500 W for current signal
	Output	Relay	2 x relay NO/NC contact (240 V ac/1 A)
			4 x open drain (24 V/200 mA)
		Analog	1 x 0/4 - 20 mA 11 bits
			2 x 0...10 V or 0/4...20 mA, 11 bits (not isolates from inverter ground)
24 V power supply capacity	500 mA (available for the user, including I/Os)		
Communication	Modbus-RTU BACnet MS/TP Metasys N2	RS485 built-in (available in control terminals)	
		RS485 built-in / SuperDrive and WLP software	
	USB built in	SuperDrive and WLP software	

Technical Data - Standards

Safety standards	UL 508C	Power conversion equipment
	UL 840	Insulation coordination including clearances and creepage distances for electrical equipment
	EN 61800-51	Safety requirements electrical thermal and energy
	EN 50178	Electronic equipment for use in power installations
	EN 60204-1	Safety of machinery. Electrical equipment of machines. Part: General requirement Note: For a machine to comply with this standard, the manufacturer of the machine is responsible for installing an emergency stop device and a device for disconnection from the power line
	EN 60146 (IEC)	Semiconductor converters
	EN 61800-2	Adjustable speed electrical power drive systems - Part 2: General requirements - Ratings specifications for low voltage adjustable frequency AC power drive systems
Electromagnetic compatibility standards	EN 61800-3	Adjustable speed electrical power drive systems - Part 3: EMC product standard including specific test methods
	EN 55011	Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment CISPR11 - Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
	EN 61000-4-2	Electromagnetic Compatibility (EMC) - Part 4: Testing and measurement techniques - Section 2: Electrostatic discharge immunity test
	EN 61000-4-3	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 3: Radiated, radio-frequency, electromagnetic field immunity test
	EN 61000-4-4	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 4: Electrical fast transient/burst immunity test
	EN 61000-4-5	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 5: Surge immunity test
	EN 61000-4-6	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 6: Immunity to conducted disturbances, induced by radio-frequency fields
Mechanical construction standards	EN 60529	Degrees of protection provided by enclosures (IP code)
	UL 50	Enclosures for electrical equipment



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