

	Main Feature	es		
Reference Product code Product reference Accessory module (c		: CFW500A01P6T4NB20H00G2 : 15572911 : CFW500 G2 : Without plug-in		0H00G2
Basic data Power supply Input minimum-maximum - In	voltage	: 380-480 V : 323-528 V : 3		
- Out		: 3		
Supply voltage range			380-480 V	
Overload cicle Rated current		Normal Overload (ND Not applicable) Heav	/y Overload (HD) 1.6 A
Overload current for 60 se	9C	Not applicable		2,4 A
Overload current for 3 sec	-	Not applicable		3,2 A
laximum applicable motor:		1 ···· PF ·····	I	· ·
		Pov	ver (HP/kW) [1]	
Voltage/Frequ		Normal Overload (ND)	Heavy	Overload (HD)
380V / 50H		Not applicable	0,	75 / 0,55
380V / 60H		Not applicable		75 / 0,55
400V / 50H		Not applicable		75 / 0,55
400V / 60H 440V / 50H		Not applicable Not applicable		,75 / 0,55 1 / 0,75
440V / 501 440V / 60H		Not applicable		1 / 0,75
460V / 60H		Not applicable		1 / 0,75
480V / 60H	Hz	Not applicable		1 / 0,75
DC power supply Standard switching freque Selectable switching frequ Real-time clock Copy Function Dissipated power:	rvoltage t [3] [3] wer up cycles - on/off) per ncy	: Category III : Not applicable : 1,9 A : 0,75 : 0,98 : ≥ 97% hour : 10 (1 each 6 n : Not allow : 5 kHz : 2,5 and 15 kH : Not available : Yes, by MMF o	-in to 3% of input rated line v ninutes) z pu plug-in ou alphanumer	
Mounting type	Ove		rload HD	
Surface	Not applicable		25 W	
Flange		applicable	Not applicable	
Source available to th Output voltage Maximum capacity Control/performance Power supply Control method - inductior Encoder interface Control output frequency [data n motor	: 24 Vcc : 150 mA : Switched-mode power supply : V/f, VVW, Sensorless, Encod : Only with plug-in : 0-500 Hz		
Frequency resolution	-1	: 0.015 Hz		
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Control/performance data

- V/F Control - Speed regulation
- Speed variation
- **VVW Control**
- Speed regulation - Speed variation
- Sensorless vector control
- Speed regulation
- Speed variation
- Vector control with Encoder
 - Speed regulation
 - Speed variation

Analog Inputs

Quantity (standard) Levels Impedance for voltage input Impedance for current input Function Maximum allowed voltage

Digital inputs

Quantity (standard) Activation Maximum low level Minimum high level Input current . Maximum input current Function Maximum allowed voltage

Analog outputs

Quantity (standard) Levels RL for voltage output RL for current output Function

Digital outputs

Quantity (standard) Maximum voltage Maximum current Function

Communication

- Modbus-RTU (with accessory: Any plug-in module)
- Modbus/TCP (with accessory CFW500-CEMB-
- TCP)
- Profibus DP (with accessory: CFW500-CPDP)
 Profibus DPV1 (with accessory: CFW500-CPDP)
- Profinet (with accessory CFW500-CEPN-IO)
- CANopen (with accessory: CFW500-CCAN)
- DeviceNet (with accessory: CFW500-CCAN) - EtherNet/IP (with accessory CFW500-CETH-IP)
- EtherCAT (Not available)
- BACnet (CFW500 G2 / CFW501 G2 / MW500 G2 with accessory: Any plug-in module)

- Available protection
- Output phase-phase overcurrente/Short - Overcurrent/Short circuit phase-ground
- Under/Overvoltage in power
- Heat sink overtemperature
- Motor overload
- IGBT's modules overload
- Fault/External alarm
- Programming error

Operation interface (HMI)

Avaliability HMI installation Number of HMI buttons Display Indication accuracy Speed resolution

: Included in the product : Fixed HMI : 9 : Numeric LCD : 5% of rated current : 0,1 Hz

: 1% of rated speed

: 1% of rated speed

: 0,5% of rated speed

: 0,1% of nominal speed

: 1:20

: 1:30

: 1:100

: Up to 0 rpm

: Only with plug-in

: Not applicable : Not applicable

: Not applicable

: Not applicable

: Not applicable

: Only with plug-in

: Not applicable

: Not applicable

: Not applicable : Not applicable

: Not applicable : Not applicable

: Not applicable

: Only with plug-in

: Not applicable : Not applicable

: Not applicable

: Not applicable

: Only with plug-in

: Not applicable

: Not applicable

: Not applicable





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variable Speed Drives				
Operation interface (HMI)				
Standard HMI degree of protection	: IP20			
HMI battery type	: Not applicable			
HMI battery life expectancy	: Not applicable			
Remote HMI type	: Accessory			
Remote HMI frame	: Not applicable			
Remote HMI degree of protection	: IP54			
Ambient conditions				
Enclosure	: IP20			
Pollution degree (EN50178 and UL508C)	: 2			
Temperature around the inverter: of -10 $^{\circ}$ C / 1 reduction of 2 % per $^{\circ}$ C of 50 (122) o 60 $^{\circ}$ C (1	40 °F).	ve the specified is necessary to apply current		
Relative humidity: 5% to 95% without condense				
Altitude: up to 1000 m (3281 ft) under normal of 100 m above (0,3% for each 100 ft above) of 7 models 380480 V and 600 V for models 500	1000 m (3281 ft). Reduce the maximum volta	age (240 V for models 200240 V, 480 V for		
Sustainability policies				
RoHS	: Yes			
Conformal Coating	: 3C2 (IEC 60721-3-3:2002)			
C C				
Dimensions and weigth	. •			
- Size	: A : 189 mm / 7.4 in			
- Height				
- Width	: 75 mm / 2.95 in			
- Depth	: 150 mm / 5.91 in			
- Weight	: 0,8 kg / 1.8 lb			
Mechanical Installation				
Mounting position	: Surface or DIN rail			
Fixing screw	: M4			
Tightening torque	: 2 N.m / 1.48 lb.ft			
Allows side-by-side assembly	: Yes, maximum ambient temperati	ure 40°C		
Minimum spacing around the inverter:				
- Тор	: 15 mm / 0.59 in			
- Bottom	: 40 mm / 1.57 in			
- Front	: 30 mm / 1.18 in			
- Between inverters (IP20)	: 10 mm / 0.39 in			
Electrical connections				
Cable gauges and tightening torques:				
	Recommended cable gauge	Recommended tightening torque		
Power	1,5 mm² (16 AWG)	0,5 N.m / 0.37 lb.ft		
Braking	Not applicable	0,5 N.m / 0.37 lb.ft		
Grounding	2,5 mm ² (14 AWG)	0.5 N.m / 0.37 lb.ft		
Control	0,5 to 1,5 mm ² (20 to 14 AWG)	0,5 N.m / 0.37 lb.ft		
SoftPLC	: Yes, incorporated			
Maximum breaking current	: Not available			
Minimum resistance for the brake resistor	: Not available			
Recommended aR fuse [6]	: FNH00-20K-A			
Recommended circuit breaker [6]	: MPW18i-3-D025			
Disconnect switch	: Not applicable	: Not applicable		
Motor coupling box	: Not applicable			
Standards				
Safety	- UL 508C - Power conversion equ	inment		
Salety		ncluding clearances and creepage distances		
	for electrical equipment.	notating ofertanees and ofeepage distances		
	- EN 61800-5-1 - Safety requireme	onts electrical thermal and energy		
	- EN 50178 - Electronic equipment			
	- EN 60204-1-Safety of machinery	Electrical equipment of machines. Part		
		have a machine in accordance with that		
	· ·	machine is responsible for the installation of		
	an emergency-stop device and a n	•		
	- EN 60146 (IEC 146) - Semicondu			
		electrical power drive systems - Part 2:		
		ecifications for low voltage adjustable		
	frequency AC power drive systems			
Electromagnetic Compatibility		electrical power drive systems - Part 3: EMC		
	product standard including specific			
	product standard including specific			

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.

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The information contained are reference values. Subject to change without notice. Image merely illustrative.



Standards	
	 CISPR 11 - 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	- EN 60529, UL 50 and IEC 60721-3-3

Certifications

UL, CE, RCM, CS/IRAM, EAC, UKCA and RoHS CHINA

Notes

1) Motor power is orientative, valid for standard WEG Motors of IV poles. The correct sizing must be done according to the nominal current of the motor used, which must be less than or equal to the rated output current of the inverter;

2) Braking resistor is not included;

3) Considering minimum line impedance of 1%;

4) For more information, refer to the user manual of CFW500;

5) All images are merely illustrative.

6) For operation with switching frequency above nominal, apply derating to the output current (refer to the user manual).