

	Main Fe	atures			
	Reference Product cod Product refe Accessory n		: CFW501A01P6T2NB20C3 : 12199697 : CFW501 HVAC : CFW500-485		
Basic data					
Power supply	voltage	: 200-240 V : 170-264 V			
Input minimum-maximum voltage - Input		: 3			
- Output		: 3			
Supply voltage range			200-	-240 V	
Overload cicle		Normal Overload (ND) Heavy Overload (HD)			
Rated current		1.6 A		Not applicable	
Overload current for 60 sec	2	1,8 A		Not applicable	
Overload current for 3 sec		2,4 A		Not applicable	
laximum applicable motor:					
Voltage/Freque	ency	Power (HP/kW) [1]			
U	,	Normal Overload (ND)		Heavy Overload (HD)	
220V / 50H		0,33 / 0,25		Not applicable	
220V / 60Hz 230V / 50Hz		0,33 / 0,25		Not applicable Not applicable	
230V / 50H		0,33 / 0,25		Not applicable	
Not applicable		Not applicable		Not applicable	
Not applicable		Not applicable		Not applicable	
Not applicable		Not applicable		Not applicable	
Not applicat	ole	Not applicable		Not applicable	
Link Inductor Memory card USB port Line frequency Line frequency range (mini Phase unbalance Transient voltage and over Single-phase input current Three-phase input current Typical input power factor Displacement factor Rated efficiency Maximum connections (pow DC power supply Standard switching frequer Selectable switching frequer Selectable switching frequer Beal-time clock Copy Function Dissipated power:	voltage [3] [3] wer up cycles - on/ ncy	: Only wi : 50/60H: : 48-62 ⊢ : Less or : Catego : Not app : 1,5 A : 0.91 : 0,98 : ≥ 97% off) per hour : 10 (1 ea : Not allo : 5 kHz : 2,5 and : Not ava	Iz equal to 3% of i ry III licable ach 6 minutes) w 15 kHz	input rated line voltage	
Mounting type	Overload				
Surface		ND 13 W		HD Not applicable	
Flange		Not applicable		Not applicable	
Source available to the Output voltage Maximum capacity Control/performance of Power supply Control method - induction Encoder interface Control output frequency [5	lata motor	: 24 Vcc : 150 mA : Switched-mode power : V/f (escalar) and VVW : Only with plug-in : 0-500 Hz			
Frequency resolution	-	: 0,015 Hz			
		nation contained are refere			

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 : 1 rpm

: 1% of rated speed : 1:30

: 1% of rated speed

: 1:20

- : Not applicable : Not applicable
- : Not applicable : Not applicable

: 2 : 0-10V, 0-20mA and 4-20mA : 100 kΩ : 500 Ω : Programmable

- : 30 Vcc
- :4
- : Active low and high : 5 V (low) e 15 V (high)
- : 9 V (low) e 20 V (high)
- : 4,5 mA
- : 5,5 mA
- : Programmable
- : 30 Vcc
- · 1 : 0 to 10V, 0 to 20mA and 4 to 20mA
- : 10 kΩ
- · 500 O
- : Programmable
- : 2 NO/NC relay and 1 transistor
- : 240 Vca and 24 Vcc
- : 0.5 A and 150 mA
- : Programmable

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







: IP20 : Not applicable : Not applicable : Accessory : Not applicable : IP54		
: IP20 : 2 (EN50178 and UL508C) °F to 50 °C / 122 °F. For temperatures above 40 °F). sation. conditions. Of 1000 m (3281 ft) to 4000 m (1		
1000 m (3281 ft). Reduce the maximum volta	age (240 V for models 200240 V, 480 V for	
: Yes : 3C2 (IEC 60721-3-3:2002)		
: A : 189 mm / 7.4 in : 75 mm / 2.95 in : 150 mm / 5.91 in		
: 0,8 kg / 1.8 lb		
: Surface or DIN rail : M4 : 2 N.m / 1.48 lb.ft : Yes, maximum ambient temperat	ure 40°C	
: 15 mm / 0.59 in		
: 40 mm / 1.57 in		
: 10 mm / 0.39 in		
Recommended cable gauge	Recommended tightening torque	
	0,5 N.m / 0.37 lb.ft	
	0,5 N.m / 0.37 lb.ft 0.5 N.m / 0.37 lb.ft	
0,5 to 1,5 mm² (20 to 14 AWG)	0,5 N.m / 0.37 lb.ft	
: Yes, incorporated : Not available : Not available : FNH00-20K-A : MPW18-3-D025 : Not applicable : Not applicable		
for electrical equipment. - EN 61800-5-1 - Safety requirement - EN 50178 - Electronic equipment - EN 60204-1-Safety of machinery 1: General requirements. Note: To	including clearances and creepage distance ents electrical, thermal and energy. t for use in power installations. Electrical equipment of machines. Part have a machine in accordance with that machine is responsible for the installation of network switching equipment.	
	 Not applicable Not applicable Accessory Not applicable IP54 IP20 2 (EN50178 and UL508C) °F to 50 °C / 122 °F. For temperatures above 40 °F). sation. conditions. Of 1000 m (3281 ft) to 4000 m (11000 m (3281 ft). Reduce the maximum volts 0600 V) in 1,1% for each 100 m above (0,3) Yes 3C2 (IEC 60721-3-3:2002) A 189 mm / 7.4 in 75 mm / 2.95 in 150 mm / 5.91 in 0.8 kg / 1.8 lb Surface or DIN rail M4 2 N.m / 1.48 lb.ft Yes, maximum ambient temperations and the maximum on the maximum and the maximum on the maximum of the maximum on the maximum of the maximum on the	

 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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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	induced by radio-frequency fields. - EN 60529, UL 50 and IEC 60721-3-3

Certifications

UL, CE, RCM, 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 CFW501 HVAC;

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).