

Contraction of the second seco	Main Featu	res		
	Product coding Product code Product reference Accessory modul		: CFW500A : 14977266 : CFW500 G : CFW500-I0	
Basic data Power supply Input minimum-maximum vo - In - Out	bltage	: 380-480 V : 323-528 V : 3 : 3		
Supply voltage range			380-48	0 V
Overload cicle		Normal Overload (ND)	Heavy Overload (HD)
Rated current				10
Overload current for 60 sec		Not applicable		15
Overload current for 3 sec		Not applicable		20
laximum applicable motor:				
		F	Power (HP/kW)	[1]
Voltage/Freque	ncy	Normal Overload (ND)		Heavy Overload (HD)
380V / 50Hz	<u>z</u>	Not applicable		5,5 / 4
380V / 60Hz		Not applicable		6 / 4,5
400V / 50Hz		Not applicable		5,5 / 4
400V / 60Hz		Not applicable		6 / 4,5
440V / 50Hz		Not applicable		6 / 4,5
440V / 60Hz	<u>.</u>	Not applicable		6 / 4,5
460V / 60Hz	<u> </u>	Not applicable		7,5 / 5,5
480V / 60Hz	<u>.</u>	Not applicable		7,5 / 5,5
Safety Stop Internal RFI filter External RFI filter Link Inductor Memory card USB port Line frequency range (minin Phase unbalance Transient voltage and overv Single-phase input current [Three-phase input current [Power factor Displacement factor Rated efficiency Maximum connections (pow DC power supply Standard switching frequent Selectable switching frequent Real-time clock COPY Function	oltage 3] 3] ver up cycles - on/off) p cy	: Without filte : Not availab : No : Not include : Only with p : 50/60Hz : 48-62 Hz : Less or equ : Category II : Not applica : 12,2 A : 0,75 : 0,98 : $\geq 97\%$	le d in the product lug-in ual to 3% of inpu ble 6 minutes) kHz le	
Dissipated power:		^	rlaad	
Mounting type		ND Ove	erload	HD
Surface	170 W		170 W	
Flange	Not applicable			Not applicable
Source available to the Output voltage Maximum capacity		: 24 Vcc : 150 mA	1	
Control/performance d Power supply Control method Encoder interface Control output frequency	ata	: Switched-mode power su : V/f, VVW, Sensorless and : Only with plug-in : 0-500 Hz		

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Control/performance data

- V/F Control - Speed resolution - Speed range
- VVW Control - Speed resolution - Speed range
- Sensorless vector control - Speed resolution - Speed range
- Vector control with Encoder - Speed resolution
 - Speed range

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

Analogic outputs - Quantity (standard) Levels RL for voltage output RL for current output Function

Digital outputs

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 (Not aplicable)

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 Installation Number of HMI buttons Display Indication accuracy Speed resolution Standard HMI degree of protection

: Included in the product : Fixed HMI ٠q : Numeric LCD : 5% of rated current : 0,1 Hz : IP66

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: Active low and high : 5 V (low) e 15 V (high) : 9 V (low) e 20 V (high) : 4,5 mA

: 1% of rated speed

: 1% of rated speed

: 0,5% of rated speed

: 0,1% of nominal speed

: 0-10V, 0-20mA and 4-20mA

: 1:20

: 1:30

: 1:100

: 1

: Up to 0 rpm

- : 5,5 mA
- : Programmable
- : 30 Vcc
- · 1 : 0 to 10V, 0 to 20mA and 4 to 20mA : 10 kΩ
- : 500 Ω
- : Programmable
- : 1 NO/NC relay and 1 transistor
- : 240 Vca and 24 Vcc
- : 0.5 A and 150 mA
- : Programmable

: 30 Vcc :4

: 100 kΩ

: 500 Ω : Programmable



Operation interface (HMI)		
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	: IP66	
Degree of pollution	: 2	
Temperature around the inverter: of -10 ° reduction of 2 % per °C of 40 (104) to 50 Relative humidity: 5% to 95% without con		ove the specified is necessary to apply curre
	rmal conditions. Of 1000 m (3281 ft) to 4000 m (1 e maximum voltage (240 V for models 200240 V 0 m above of 2000 m.	
Sustainability policies		
RoHS	: Yes	
Conformal Coating	: 3C2	
Dimensions and weigth		
- Size	: A (IP66)	
- Height	: 265 mm / 10.4 in	
- Width	: 165 mm / 6.5 in	
- Depth	: 252.5 mm / 9.94 in	
- Weight	: 6 kg / 13.2 lb	
Mechanical Installation		
Mounting position	: Surface or DIN rail	
Fixing screw	: M5	
Tightening torque	: 5 N.m / 3.69 lb.ft	
Allows side-by-side assembly Minimum spacing around the inverter:	: No	
- Top	: 35 mm / 1.38 in	
- Bottom	: 50 mm / 1.97 in	
- Front	: 50 mm / 1.97 in	
- Side	: 15 mm / 0.59 in	
Electrical connections		
Cable gauges and tightening torques:		
	Recommended cable gauge	Recommended tightening torque
Power	2,5 mm² (14 AWG)	0,5 N.m / 0,37 lb.ft
Braking	2,5 mm² (14 AWG)	0,5 N.m / 0,37 lb.ft
Grounding	2,5 mm² (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	: 16,0 A
Minimum resistance for the brake resistor	: 47 Ω
Recommended aR fuse	: FNH00-25K-A
Recommended circuit breaker	: MPW18-3-U016
Disconnect switch	: With disconnect switch
Motor coupling box	: Not applicable

Standards

Safety	- UL 508C - Power conversion equipment.
	- UL 840 - Insulation coordination including clearances and creepage distances
	for electrical equipment.
	- EN 61800-5-1 - 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
	1: General requirements. Note: To have a machine in accordance with that standard, the manufacturer of the machine is responsible for the installation of
	an emergency-stop device and a network switching equipment.
	- EN 60146 (IEC 146) - Semiconductor converters.
	- EN 61800-2 - Adjustable speed electrical power drive systems - Part 2:
	General requirements - Rating specifications for low voltage adjustable
	frequency AC power drive systems.
Electromagnetic Compatibility	- 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.

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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 5: Surge immunity test. EN 61000-4-6 - Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 5: Surge immunity test.
	induced by radio-frequency fields.
Mechanical Construction	- EN 60529 e UL 50

Certifications

UL, CE, RCM, CS/IRAM and EAC

Notes

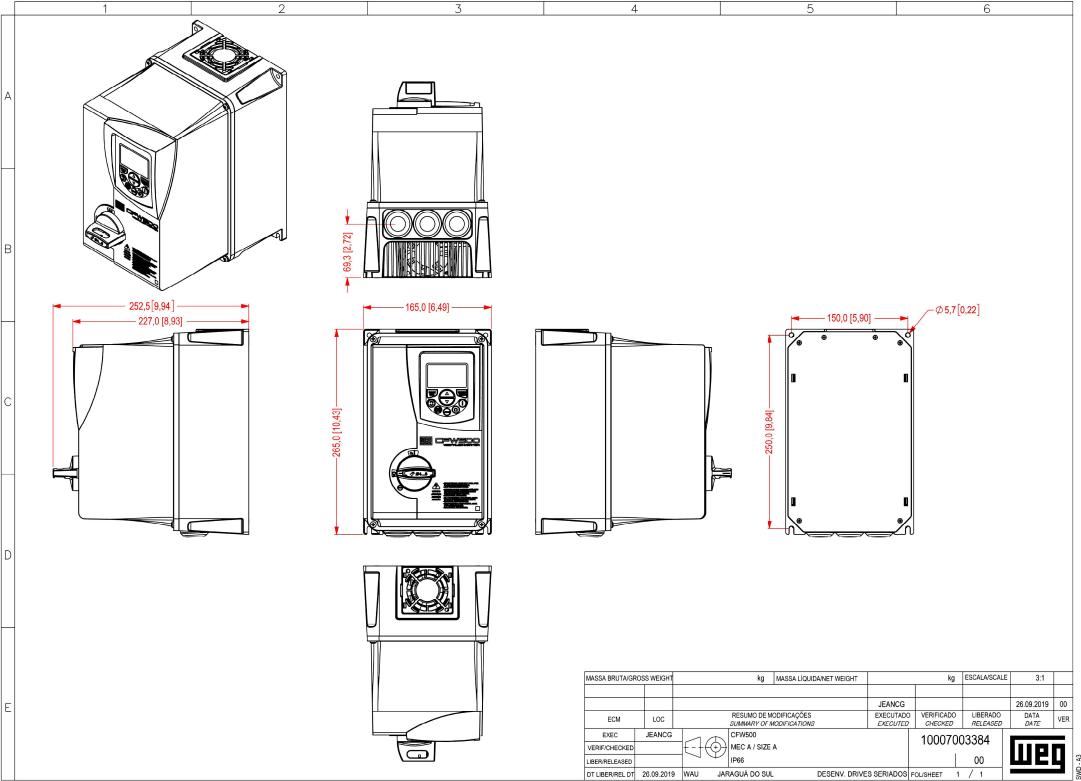
1) Motor power is orientative, valid for standard WEG Motors of IV poles. The correct sizing must be done according to the nominal current of the motor used, which must be less than or equal to the rated output current of the inverter;

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).



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