

	Main Featur	res		
	Reference Product code Product line		: CFW320A04P8T4NB : 15893236 : CFW320	320
Basic data Power supply nput minimum-maximum v nput phases · Input · Output	oltage	: 380-480 V : 323-528 V : Three-phase : 3 : 3		
- - - - -			Range 1	Range 2
Supply voltage range			380-415 V	440-480 V
Overload regime Rated current (HD)			Heavy (HD) 4.8 A	Heavy (HD) 4.8 A
Overload current for 60 s (H	חר		4.8 A	7.2 A
Single-phase input current			Not applicable	Not applicable
Three-phase / DC input cur			5.8 A	5.8 A
· · ·			3.0 A	5.0 A
aximum applicable motor:			·····	
Voltage/Freque		Normal Overload (ND)	Heav	vy Overload (HD)
380V / 50H		Not applicable		3/2.2
380V / 60H 400V / 50H		Not applicable Not applicable		3 / 2.2 3 / 2.2
400V / 50H		Not applicable		3/2.2
400V / 50H		Not applicable		3/2.2
440V / 60H		Not applicable		3/2.2
460V / 60H		Not applicable		3/2.2
480V / 60H		Not applicable		3/2.2
External RFI filter Link Inductor Memory card JSB port Line frequency Line frequency range (minil Phase unbalance Transient voltage and over Typical input power factor Rated efficiency Maximum connections (pow DC power supply Switching frequency [4]: Selectable switching freque Real-time clock Copy Function Dissipated power [5]: Source available to the Dutput voltage Maximum capacity Control/performance d Power supply Control method - induction Encoder interface	voltage ver up cycles - on/off) pe ency e user lata	: Yes, by CFW : 50/60Hz : 48-62 Hz : Less or equa : Category III : 0.83 : 0.98 : ≥ 97% r hour : 10 (1 each 6 : Not allow : 5 kHz : 2.5 and 15 kH : Not available : Yes, by MMF : 69 W : 10 Vdc : 50 mA : Switched-mo : V/f (escalar)	in the product /320-CUSB al to 3% of input rated line minutes) Hz -uDrives	e voltage
Control output frequency [5 Frequency resolution V/F Control • Speed regulation • Speed variation VVW Control • Speed regulation • Speed variation Sensorless vector control • Speed regulation]	: 0-400 Hz : 0.1 Hz : 1% of rated sj : 1:20 : 1% of rated sj : 1:30	peed	

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V/F Control

- Speed variation Vector control with Encoder - Speed regulation

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: CFW300-CRS485, CFW300-CRS232, CFW300-CUSB or CFW300-CBLT)

- Modbus/TCP (with accessory: CFW300-CETH)
- Profibus DP (with accessory: CFW300-CPDP)
- Profibus DPV1 (Not available)
- Profinet (Not available)
- CANopen (with accessory: CFW300-CCAN)
- DeviceNet (with accessory: CFW300-CCAN)
- EtherNet/IP (with accessory: CFW300-CETH)
- EtherCAT (Not available)
- Bluetooth (with accessory: CFW300-CBLT)
- BACnet (with accessory: CFW300-CRS485)

Available protection

- Output phase-phase overcurrente/Short
- Not applicable
- Under/Overvoltage in power
- Heat sink overtemperature
- Motor overload
- Not applicable
- Fault/External alarm
- Programming error - CPU or memory failure

Operation interface (HMI)

Avaliability HMI installation Number of HMI buttons Display Indication accuracy Speed resolution Standard HMI degree of protection HMI battery type HMI battery life expectancy Remote HMI type Remote HMI frame Remote HMI degree of protection

Ambient conditions

Enclosure

: IP20

: Included in the product

: 10% of rated current

: Accessory CFW320-KHMIR

: Fixed HMI

: 0.1 Hz

: IP20

: Numeric LCD

: Not applicable

: Not applicable

: Not applicable : IP54

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: Not applicable

- : Not applicable
- :1
- : 0-10V, 0-20mA and 4-20mA : 100 kΩ
- : 500 Ω
- : Programmable
- : 30 Vcc
- :4 : Active low and high : 5 V (low) and 10 V (high)
- : 10 V (low) and 20 V (high)
- : 11 mÅ
- : 20 mA
- : Programmable
- : 30 Vcc

: Only with plug-in Not applicable : Not applicable : Not applicable : Not applicable

: 1 NO/NC relay : 250 Vac : 0.5 A

: Programmable



Ambient conditions

Degree of pollution (EN50178 and UL508C) : 2 (EN50178 and UL508C) Temperature around the inverter: of 0 °C / 32 °F to 40 °C / 104 °F. For temperatures above the specified is necessary to apply current reduction of 2 % per °C of 40 (104) to 50 °C (122 °F). Relative humidity: 5% to 95% without condensation.

Sustainability policies RoHS Conformal Coating	: Yes : 3C2 (IEC 60721-3-3:2002)
Dimensions and weigth	
- Size	: A
- Height	: 157.9 mm / 6.2 in
- Width	: 70 mm / 2.76 in
- Depth	: 148.4 mm / 5.8 in
- Weight	: 0.9 kg / 2 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, without derating
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)	: Not applicable

Electrical connections

Cable gauges and tightening torques:

	Recommended cable gauge	Recommended tightening torque
Power	1.5 mm² (16 AWG)	0.8 N.m / 0.6 lb.ft
Braking	Not applicable	0.8 N.m / 0.6 lb.ft
Grounding	2.5 mm ² (14 AWG)	0.8 N.m / 0.6 lb.ft
Control	0.5 to 1.5 mm ² (20 to 14 AWG)	0.3 N.m / 0.22 lb.ft

Additional especifications	
SoftPLC	: Yes, incorporated
Maximum breaking current	: Not available
Minimum resistance for the brake resistor	: Not available
Recommended fuse	: FNH000-20K-A / null
Recommended circuit breaker [6]	: MPW40-3-U010
Oten dende	

Safety	- UL61800-5-1 - Adjustable speed electrical power drive systems - Part 5-1:
	Safety requirements - electrical, thermal and energy.
	- 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.
	- UL61800-5-1 - Adjustable speed electrical power drive systems - Part 5-1:
	Safety requirements - electrical, thermal and energy.
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.
	- 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.

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Standards	
	 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. With external filter only
Mechanical Construction	 With external little only EN 60529 - degrees of protection provided by enclosures (IP code). UL 50 - enclosures for electrical equipment. IEC 60721-3-3 - classification of environmental conditions - part 3: classification of groups of environmental parameters and their severities - section 3: stationary use at weather protected locations level 3m4. EN 60529 e UL 50

Certifications

1) Considering minimum impedance of 1%;

2) 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;

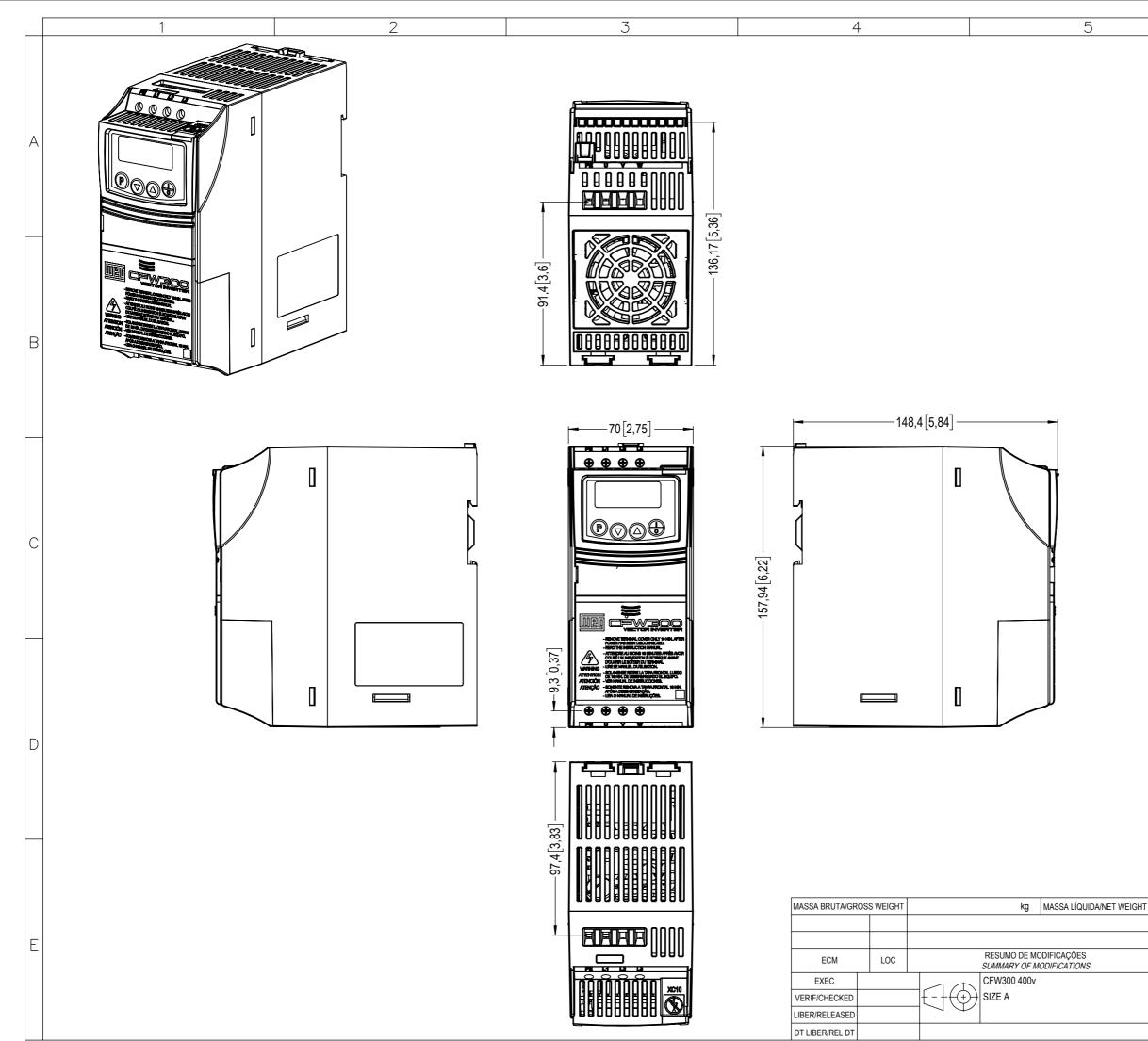
3) Braking resistor is not included;

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

5) Surface mounting, HD overload.

6) Only for electrical circuit protection. For protection of inverters, use aR fuses indicated.

7) Only with external filter.



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