

all are ready	Main Fe	atures		
	Reference Product code Product line		: CFW300A02P6S2NB : 13059320 : CFW300	20
Basic data Power supply Input minimum-maximum vo Input phases - Input - Output	oltage	: 200-240 V : 170-264 V : Single-phase : 1 : 3	Range 1	Range 2
Supply voltage range Overload regime			200-240 V Heavy (HD)	Not applicable Heavy (HD)
Rated current (HD)			2.6 A	Not applicable
Overload current for 60 s (H	ID)		3,9 A	Not applicable
Single-phase input current (5,7 A	Not applicable
Three-phase / DC input curr	rent (HD) [1]		Not applicable	Not applicable
laximum applicable motor:				
Voltage/Freque	ncy	Normal Overload (ND)	Heav	y Overload (HD)
220V / 50Hz		Not applicable		0,75 / 0,55
220V / 60Hz		Not applicable		0,5 / 0,37
230V / 50Hz		Not applicable		0,75 / 0,55
230V / 60Hz		Not applicable	N	0,5 / 0,37
Not applicabl Not applicabl		Not applicable Not applicable		ot applicable ot applicable
Not applicabl		Not applicable		ot applicable
Not applicabl		Not applicable		ot applicable
Link Inductor Memory card USB port Line frequency Phase unbalance Transient voltage and overv Typical input power factor Displacement factor Rated efficiency Maximum connections (pow DC power supply Switching frequency [4]: Selectable switching frequent Real-time clock Copy Function Dissipated power [5]: Source available to the Output voltage Maximum capacity Control/performance da Power supply Control method - induction r Encoder interface Control output frequency [5]	oltage ver up cycles - on/o ncy user ata notor	: Category III : 0,70 : 0,98 : ≥ 97% : 10 (1 each 6 : Not allow : 5 kHz : 2,5 and 15 kH : Not available : Yes, by CFW : 35 W : 10 Vdc : 50 mA : Switched-moo : V/f (escalar) a	300-CUSB I to 3% of input rated line minutes) Hz 100-CFW300-MMF de power supply	e voltage
Frequency resolution V/F Control - Speed regulation		: 0.1 Hz : 1% of rated sp	beed	

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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 errorCPU 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

: IP54

: Included in the product

: 10% of rated current

: Accessory CFW300-KHMIR

: Fixed HMI

: 0.1 Hz

: IP20

: Numeric LCD

: Not applicable

: Not applicable

: Not applicable

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: Not applicable

: Not applicable

- : 1 : 0-10V, 0-20mA and 4-20mA
- : 100 kΩ
- : 500 Ω
- : Programmable : 30 Vcc
- 30 00

: 4 : Active low and high : 5 V (low) and 10 V (high) : 10 V (low) and 20 V (high)

- : 10 v (low) and : 11 mA
- : 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 50 °C / 122 °F. For temperatures above the specified is necessary to apply current
reduction of 2 % per °C of 50 (122) o 60 °C (140 °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 mm² (14 AWG)	0.8 N.m / 0.6 lb.ft
Control	0,5 to 1,5 mm ² (20 to 14 AWG)	0.4 N.m / 0.30 lb.ft

Additional especifications	
SoftPLC	: Yes, incorporated
Maximum breaking current	: Not available
Minimum resistance for the brake resistor	: Not available
Recommended fuse	: FNH00-20K-A
Recommended circuit breaker [6]	: MPW40-3-U010

Standards

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Safety Electromagnetic Compatil	 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. UL 508C - Power conversion equipment. EN 61800-3 - Adjustable speed electrical power drive systems - Part 3: EMC product standard including specific test methods. EN 65011 - 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. EN 61000-4-2 - 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.
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Mechanical Construction	 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 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.