

	Main Feature	es				
Reference Product code Product line			: CFW300A07P3S2NB20 : 13059418 : CFW300			
Basic data		000.040.1/				
^o ower supply nput minimum-maximum voltage		: 200-240 V : 170-264 V				
nput phases		: Single-phase				
- Input		: 1				
- Output		: 3				
			Range 1	Range 2		
Supply voltage range			200-240 V	Not applicable		
Overload regime			Heavy (HD) 7.3 A	Heavy (HD)		
Rated current (HD) Overload current for 60 s (HD)			7.3 A 11,0 A	Not applicable Not applicable		
Single-phase input current (HD) [1	1		16,1 A	Not applicable		
Three-phase / DC input current (HD) [1			Not applicable	Not applicable		
laximum applicable motor:	<i>,</i> L J					
Voltage/Frequency		Normal Overload (ND)	Цери	y Overload (HD)		
220V / 50Hz		Not applicable		2 / 1,5		
220V / 50Hz		Not applicable		2 / 1,5		
230V / 50Hz		Not applicable		2 / 1,5		
230V / 60Hz		Not applicable		2 / 1,5		
Not applicable		Not applicable		ot applicable		
Not applicable		Not applicable	Not applicable			
Not applicable		Not applicable	Not applicable Not applicable			
Not applicable		Not applicable		or applicable		
Dynamic braking [3]		: Standard wit	5			
External RFI filter		: CFW300-KF	A-S1-S2			
Link Inductor Memory card		: No : Not included	in the product			
USB port		: Yes, by CFW				
Line frequency		: 50/60Hz				
Line frequency range (minimum -	maximum)	: 48-62 Hz				
Phase unbalance			al to 3% of input rated line	voltage		
Transient voltage and overvoltage		: Category III				
Typical input power factor Displacement factor		: 0,70 : 0,98				
Rated efficiency		. 0,98 : ≥ 97%				
Maximum connections (power up of	cycles - on/off) per		minutes)			
DC power supply	<i>,</i> .	: Not allow	·			
Switching frequency [4]:		: 5 kHz	11-			
o 1 j		: 2,5 and 15 k : Not available				
Real-time clock Copy Function			, /100-CFW300-MMF			
Dissipated power [5]:		: 90 W				
Source available to the user						
Output voltage		: 10 Vdc				
Maximum capacity		: 50 mA				
Control/performance data		· Curitahad	do nowor oundly			
Power supply Control method - induction motor		: Switched-mo	ode power supply and V/VW			
Encoder interface		· · · · · · · · · · · · · · · · · · ·	h CFW300-IOAENC			
Control output frequency [5]						
Frequency resolution		: 0.1 Hz				
V/F Control						
- Speed regulation		: 1% of rated s	peed			
- Speed variation		: 1:20				
•						
VVW Control						
- Speed regulation		: 1% of rated s	peed			
- Speed regulation - Speed variation		: 1% of rated s : 1:30	peed			
- Speed regulation						

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



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
Domoto UMI fromo

Remote HMI frame Remote HMI degree of protection

Ambient conditions

Enclosure

: IP20

: IP54

: Included in the product

: Accessory CFW300-KHMIR

: Fixed HMI Δ

: 0.1 Hz : IP20 : Not applicable : Not applicable

: Numeric LCD : 10% of rated current

: 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
- :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 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	2,5 mm² (14 AWG)	0,8 N.m / 0.6 lb.ft
Braking	Not applicable	0,8 N.m / 0.6 lb.ft
Grounding	4,0 mm ² (12 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	: FNH00-25K-A
Recommended circuit breaker [6]	: MPW40-3-U020

Standards

Standards	
Safety Electromagnetic Compati	 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 61106 (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 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. EN 61000-4-2 - Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 3: Radiated, radio-frequency, electromagnetic field immunity test. EN 61000-4-3 - Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 3: Radiated, radio-frequency, electromagnetic field immunity test.
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Standards

Standards	
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;

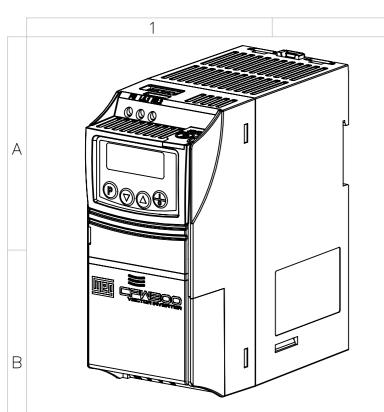
3) Braking resistor is not included;

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.

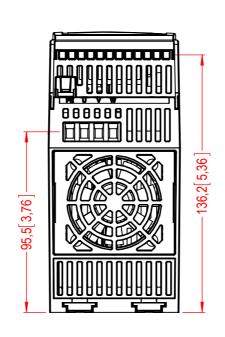
7) Only with external filter.



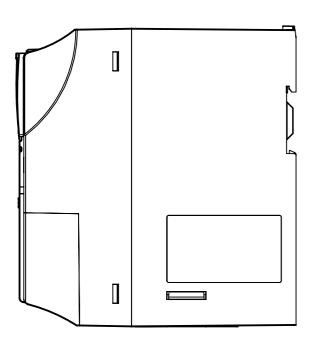
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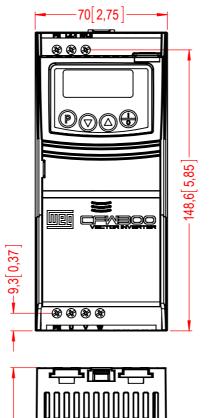
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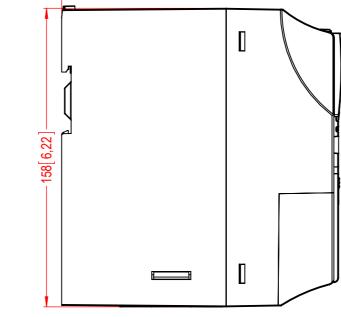


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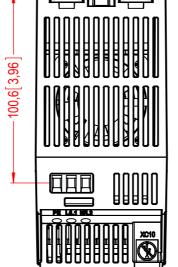
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- 148,4[5,84]

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MASSA BRUTA/GROSS WEIGHT			kg MASSA LÍQI			
ECM	LOC			RESUMO DE M SUMMARY OF M		
EXEC				CFW300		
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JIDA/NET WEIGHT		kg	ESCALA/SCALE			