11/11/2021



1/4

Contraction of the second seco	Main Fea				
	Product codin Product code Product refere Accessory mo	ence	: 1497 : CFW	V500A06P5T4DB66DSG2 77065 V500 G2 V500-IOS	
Basic data Power supply Input minimum-maximum v - In - Out	voltage	: 380-480 V : 323-528 V : 3 : 3			
Supply voltage range			3	380-480 V	
Overload cicle		Normal O	Normal Overload (ND) Heavy Overload (HD)		
Rated current			()	6.5	
Overload current for 60 se	С	Not a	pplicable	9.8	
Overload current for 3 sec		Not a	pplicable	10	
Aaximum applicable motor:					
			Power (HI	P/kW) [1]	
Voltage/Frequ	iency	Normal Overload	· · · · ·	Heavy Overload (HD)	
380V / 50H	lz	Not applicab	· · ·	3 / 2,2	
380V / 60H		Not applicab		3 / 2,2	
400V / 50H	łz	Not applicab		4/3	
400V / 60H	lz	Not applicab		3 / 2,2	
440V / 50H	lz	Not applicab		4 / 3	
440V / 60H		Not applicab		4/3	
460V / 60H		Not applicab		4/3	
480V / 60H	lz	Not applicab	le	4/3	
Safety Stop Internal RFI filter External RFI filter Link Inductor Memory card USB port Line frequency range (min Phase unbalance Transient voltage and over Single-phase input current Three-phase input current Power factor Displacement factor Rated efficiency Maximum connections (po DC power supply Standard switching freque Selectable switching freque Real-time clock COPY Function	rvoltage [3] [3] wer up cycles - on/of ncy	: W : No : No : No : Or : 50 : 48 : Le : Ca : No : 7, : 0, : 2, f) per hour : 10 : Al : 5 I : 2, : No : No	ithout filter of available of included in the p of included in the p of the plug-in 0/60Hz ses or equal to 3% ategory III of applicable 9 A 75 98 97% 0 (1 each 6 minutes	of input rated line voltage	
Dissipated power:	1		Occurrent and the		
Mounting type		ND	Overload	HD	
Surface		ND 105 W		105 W	
Flange		Not applicable		Not applicable	
Source available to th Output voltage Maximum capacity	e user	: 24 Vcc : 150 mA	I		
Control/performance Power supply Control method Encoder interface Control output frequency	data	: Switched-mode p : V/f, VVW, Senso : Only with plug-in : 0-500 Hz	rless and Encoder		
Encoder Interface Control output frequency Frequency resolution					

The information contained are reference values. Subject

to change without notice. Image merely illustrative.

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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2/4

: 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 HMI battery life expectancy Remote HMI type Remote HMI frame Remote HMI degree of protection	: Not applicable : Not applicable : Accessory : Not applicable : IP54	
reduction of 2 % per °C of 40 (104) to 50 ° Relative humidity: 5% to 95% without cond Altitude: up to 1000 m (3281 ft) under norr	densation. nal conditions. Of 1000 m (3281 ft) to 4000 m (1 maximum voltage (240 V for models 200240 V	13123 ft) reduce the current in 1% for each 100
Sustainability policies		
RoHS	: Yes	
Conformal Coating	: 3C2	
Dimensions and weigth - Size - Height - Width - Depth - Weight	: A (IP66) : 265 mm / 10.4 in : 165 mm / 6.5 in : 252.5 mm / 9.94 in : 6 kg / 13.2 lb	
Mechanical Installation Mounting position Fixing screw Tightening torque Allows side-by-side assembly Minimum spacing around the inverter: - Top - Bottom - Front - Side	: Surface or DIN rail : M5 : 5 N.m / 3.69 lb.ft : No : 35 mm / 1.38 in : 50 mm / 1.97 in : 50 mm / 1.97 in : 15 mm / 0.59 in	
Electrical connections Cable gauges and tightening torques:		
Power	Recommended cable gauge 1,5 mm ² (16 AWG)	Recommended tightening torque 0.5 N.m / 0.37 lb.ft
Braking	2,5 mm² (14 AWG)	0,5 N.m / 0,37 lb.lt
Grounding	2,5 mm² (14 AWG) 2,5 mm² (14 AWG)	0,5 N.m / 0,37 lb.ft
Control	0,5 to 1,5 mm² (20 to 14 AWG)	0,5 N.m / 0.37 lb.ft

SoftPLC	: Yes, incorporated
Maximum breaking current	: 8,0 A
Minimum resistance for the brake resistor	: 100 Ω
Recommended aR fuse	: FNH00-20K-A
Recommended circuit breaker	: MPW18-3-U010
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.

11/11/2021

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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

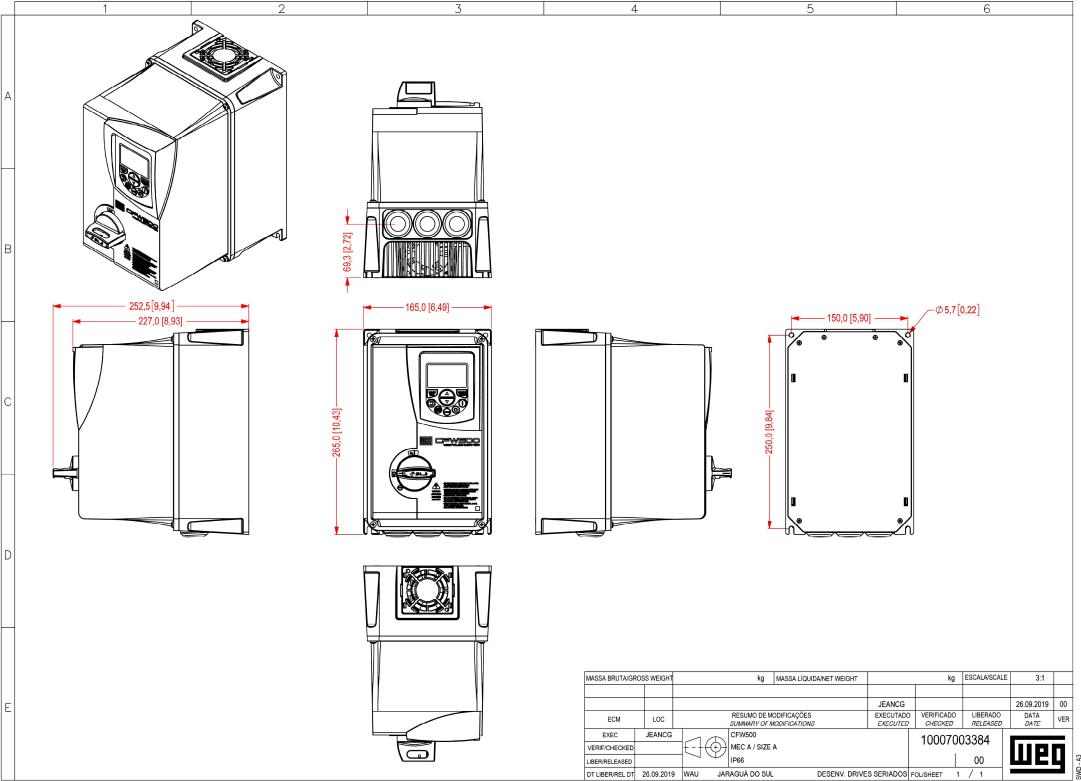
1) Motor power is orientative, valid for standard WEG Motors of IV poles. The correct sizing must be done according to the nominal current of the motor used, which must be less than or equal to the rated output current of the inverter;

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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