

and the second sec	Main Featu	res			
	Reference Product code Product line	: 5171103 : CFW110045T2ON1Z : CFW11			
Basic data ^P ower supply nput minimum-maximum vo Number of phases	Itage	: 200-2 : 170-2			
nput Dutput		: 3 : 3			
Supply voltage range		200-2	40 V	200)-240 V
Overload regime		Normal (ND)	Heavy (HD)	Normal (ND)	Heavy (HD)
Rated current		45A	36		
Overload current at 60 s Overload current at 3 s		49,5A	54A 72.0		
		67,5A	72.0		
Maximum applica					
Voltage/Freque	ency	Nerreel O 1 1 1	Power (HP		
220V / 50H	7	Normal Overload (I 15 / 11	עו)	Heavy Ove 12,5	
220V / 50H	-	15 / 11		12,5	,
230V / 50H		15 / 11		12,5	
230V / 60H		15 / 11		12,5 / 9,2	
Safety Stop RFI internal filter [3] External filter ink Inductor Memory card JSB port ine frequency ine frequency range (minim Phase unbalance Transient voltage and overvo Rated current of single-phase Overload (ND) Overload (HD) Rated current of three-phase Overload (HD) Overload (HD) Typical input power factor Displacement factor Rated efficiency Maximum connections (power Oc power supply Standard switching frequence Overload HD Selectable switching frequence COPY Function Dissipated power:	oltage e input e input er up cycles - on/off) per	: Yes : Includ : Stand : 50/60 : 48-62 : Less o : Categ : : : : : : : : : : : : :	vailable ed in the product ard in the product Hz Hz or equal to 3% of ory III	t input rated line voltage	9
Mounting type	ND O	verload HD		Overload (*	HD
Surface	590 W	450 W	Not	applicable	Not applicable
Flange	90 W	70 W		applicable	Not applicable
Source available to the Dutput voltage Maximum capacity	user	: 24 Vc : 500 m			
Control/performance da Power supply Control method - induction n Encoder interface		: Switcl : V/f, V	ned-mode power : VW, Vector and P vith 'Slot 2' acces	M motor	
15/12/2021	The information contained are reference Page 1/4			Page 1/4	

15/12/2021

Control/performance data	· 0 to 200 Hz	
Control output frequency Frequency resolution	: 0 to 300 Hz : Equivalent to 1 rpm	
V/F Control		
- V/F speed regulation - induction motor	: 1% of rated speed	
- V/F speed variation - induction motor VVW Control	: 1:20	
- VVW speed regulation - induction motor	: 1% of rated speed	
- VVW speed variation - induction motor	: 1:30	
Sensorless vector control		
- SLV speed regulation - induction motor	: 0,5% of rated speed	
- SLV speed variation - induction motor Vector control with encoder	: 1:100	
- ENC speed regulation - induction motor	: 0,05% of rated speed	
- ENC speed variation - induction motor	: Up to 0 rpm	
Analog inputs		
Quantity (standard) AI	: 2	
Al levels	: 0-10V, 0/4-20mA and -10-+10V	
Impedance	. 100 kO	
- Impedance for AI voltage input - Impedance for AI current input	: 400 kΩ : 500 Ω	
Al function	: Programmable	
Maximum allowed voltage Al	: ±30 Vcc	
Digital inputs		
Digital inputs - Quantity (standard)	:6	
Activation	: Active low and high	
DI maximum low level DI minimum high level	: 3 V : 18 V	
Input current	: 11 mA	
Maximum input current DI	: 13,5 mA	
Function	: Programmable	
Maximum allowed voltage	: 30 Vcc	
Analog outputs		
Analogic outputs - Quantity (standard) Levels	: 2 : 0 to 10V, 0 to 20mA and 4 to 20mA	
RL for voltage output	: 10 kΩ	
RL for AO current output	: 500 Ω	
Function	: Programmable	
Digital outputs		
Digital outputs - Quantity (standard)	: 3 NO/NC relays	
Maximum voltage Maximum current DO - transistor	: 240 Vca : 1 A	
Function	: Programmable	
Communication	. r rogrammabio	
 Modbus-RTU (with accessory: RS485-01; RS485-05 Modbus/TCP (with accessory: MODBUSTCP-05) Profibus DPV1 (with accessory: PROFDP-05) Profinet (with accessory: PROFINETIO-05) CANopen (with accessory: CAN/RS485-01 or CAN-02 DeviceNet (with accessory: DEVICENET-05; CAN/R EtherNet/IP (with accessory: ETHERNET/IP-05 or E⁻¹ EtherCAT (with accessory: ETHERCAT-01) BACnet (with accessory: RS485-01 or CAN/RS485-01 	01) S485-01 or CAN-01) THERNETIP-2P-05)	
Protections available	,	
 Output overcurrent/short circuit 		
- Power supply phase loss		
- Under/Overvoltage in power - Overtemperature		
- Overlemperature - Motor overload		
- IGBT's modules overload		
- Fault/External alarm		
- Breaking resistor overload		
- CPU or memory failure - Output phase-ground short circuit		
Operation interface (HMI) Avaliability	: Included in the product	
HMI installation	: Local	
Number of HMI buttons	: 9	
Display	: Graphic LCD	
Indication accuracy	: 5% of rated current	
Speed resolution	: 1 rpm	
The inf	ormation contained are reference	
15/12/2021		Dogo 2/



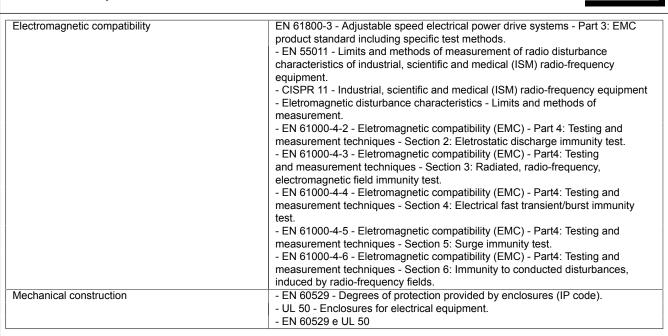
Operation interface (HMI)			
Standard HMI degree of protection	: IP56		
HMI battery type	: CR2032		
HMI battery life expectancy	: 10 years		
Remote HMI type	: Detachable of the inverter		
Remote HMI frame	: Accessory		
Remote HMI degree of protection	: IP56		
Ambient conditions			
Enclosure	: NEMA1		
Pollution degree (EN50178 and UL508C)	: 2		
Temperature			
- Minimum	: -10 °C / 14 °F		
- Nominal [4]	: 50 °C / 122 °F		
Current reduction factor [5]	: 2 % per °C of 50 (122) o 60 °C (140 °F)		
Relative humidity (non-condensing)			
- Minimum	: 5%		
- Maximum	: 90%		
Altitude			
- Rated conditions	: 1000 m (3281 ft)		
- Maximum altitude allowed for operation	: 4000 m (13123 ft)		
Current Reduction factor[6]			
- Current derating factor (for altitudes above rated)	: 1% for each 100 m above (0,3% for each 100 ft above)		
- Voltage derating factor (for altitudes above 2000 m / 6562 ft)	: 1,1% for each 100 m above (0,33% for each 100 ft above)		
Sustainability policies			
RoHS	: Yes		
Conformal Coating	: 3C2 (IEC 60721-3-3:2002)		
Dimensions			
Size	: C		
Height	: 479 mm / 18.8 in		
Width	: 220 mm / 8.66 in		
Depth	: 293 mm / 11.5 in		
Weight	: 16.5 kg / 36.4 lb		
Mechanical installation			
Mounting position	: Surface or flange		
Fixing screw	: M6		
Tightening torque	: 8,5 N.m / 6.27 lb.ft		
Allows side-by-side assembly	: Yes, without top cap		
Minimum spacing around the inverter			
- Тор	: 110 mm / 4.33 in		
- Bottom	: 130 mm / 5.12 in		
- Front	: 10 mm / 0.39 in		
- Minimum spacing around inverter	: 30 mm / 1.18 in		
Electrical connections			

Cable gauges and tightening torque:

Recommended cable	Recommended tightening torque				
gauge to 75 °C (167 °F)					
10,0 mm² (6 AWG)	2,7 N.m / 1,99 lb.ft				
10,0 mm² (8 AWG)	2,7 N.m / 1,99 lb.ft				
10,0 mm² (6 AWG)	3,5 N.m / 2.58 lb.ft				
0,5 to 1,5 mm ² (20 to 14 AWG)	0,5 N.m / 0.37 lb.ft				
	gauge to 75 °C (167 °F) 10,0 mm² (6 AWG) 10,0 mm² (8 AWG) 10,0 mm² (6 AWG)				

Additional especifications

Additional especificat	ions			
Maximum breaking current		: 44,0 A		
Minimum resistance for the brake resistor		: 9.1 Ω		
Recommended aR fuse		: FNH00-80K-A		
Recommended aR fuse		: Not applicable		
Recommended circuit breaker		: ACW100H-FMU50-3		
Recommended circuit breaker		: 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 instalation			talations	
- EN 60204-1 - Safety of machinery. Electrical equipment of machines. Par			ent of machines. Part	
		1: General requirements. Note: To have a machine in accordance with this		
		standard, the machine manufacturer is responsible for installing an emergency		
		stop device and supply disconnecting device.		
		- EN 60146 (IEC 146) - Semiconductor converters.		
		- EN 61800-2 - Adjustable speed electrical power drive systems - Part 2: General requirements - Rating especifications for low voltage adjustable		
15/12/2021	The infor	The information contained are reference		
	values. S	ubject to change without notice.	Page 3/4	
			Ļ	



Certifications

Notes

1) Orientative motor power, valid for WEG Motors standard 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) With category for emission level conducted.

4) Without derating and with minimum spaces.

5) For temperatures above the nominal and maximum temperature (with derating of current and minimum spaces).

6) For altitude over of specified.

7) All images are merely illustrative.