

	Main Featu	ures			
	Reference Product code Product line	: NACFW110105T2O55DSZ : 13537969 : CFW11			
Basic data Power supply Input minimum-maximum vo Number of phases	Itage	: 20 :)-240 V		
Input Output		: 3			
Supply voltage range		200	0-240 V		200-240 V
Overload regime		Normal (ND)	Heavy (HD) Normal (ND) Heavy (HD)
Rated current		105A	86		
Overload current at 60 s		116A	129A		
Overload current at 3 s		158A	172.0		
Maximum applica	ble motor				
Voltage/Frequ			Power (H	P / kW) [1]	
voltagen requ	5y	Normal Overloa			vy Overload (HD)
220V / 50H	lz	40 / 30			30 / 22
220V / 60H		40 / 30			30 / 22
230V / 50H		40 / 30			30 / 22
230V / 60H		40 / 30			30 / 22
Electronic supply Safety Stop RFI internal filter [3] External filter Link Inductor Memory card USB port Line frequency range (minim Phase unbalance Transient voltage and overve Rated current of single-phase - Overload (ND) - Overload (HD) Rated current of three-phase - Overload (HD) Power factor Displacement factor Rated efficiency Maximum connections (pow DC power supply Standard switching frequent - Overload HD Selectable switching frequent Real-time clock COPY Function Dissipated power:	oltage se input e input er up cycles - on/off) pe cy	: No : Wi : No : Ye: : Inc : Sta : 50, : 48- : Le: : Ca : : : : : : : : : : : : : : : : : : :	thout filter t available s luded in the produ- andard in the produ- 60Hz -62 Hz ss or equal to 3% of tegory III 5A A 4 8 7%	uct of input rated line v	voltage
Mounting type		Overload			load (*)
Curfood	ND	HD	K I	ND at applicable	HD Not appliable
Surface	1200 W 180 W	920 W		ot applicable	Not applicable
Flange		140 VV		ot applicable	Not applicable
Source available to the Output voltage Maximum capacity	user	: 24 : 50	Vcc) mA		
Control/performance da Power supply Control method Encoder interface	ata	: V/f	itched-mode powe , VVW, Vector and	PM motor	
	: Only with 'Slot 2' accessory The information contained are reference values. Subject to change without notice.				

Control/performance d	ata		
Control output frequency		: 0 to 300 Hz	
Frequency resolution V/F Control		: Equivalent to 1 rpm	
- Speed resolution		: 1% of rated speed	
- Speed range		: 1:20	
VVW Control		· 10/ of roted around	
 Speed resolution Speed range 		: 1% of rated speed : 1:30	
Sensorless vector control		. 1.00	
- Speed resolution		: 0,5% of rated speed	
- Speed range		: 1:100	
Vector control with encoder - Speed resolution		: 0,05% of rated speed	
- Speed range		: Up to 0 rpm	
Analog inputs			
Quantity (standard)		: 2	
Levels		: 0-10V, 0/4-20mA and -10-+10V	
Impedance - Impedance for voltage inp	ut	: 400 kΩ	
- Impedance for current inp		: 500 Ω	
Function		: Programmable	
Maximum allowed voltage		: ±30 Vcc	
Digital inputs			
Digital inputs - Quantity (sta	ndard)	: 6 : Active low and high	
Activation Maximum low level		: Active low and high : 3 V	
Minimum high level		: 18 V	
Input current		: 11 mA	
Maximum input current		: 13,5 mA	
Function Maximum allowed voltage		: Programmable : 30 Vcc	
Analog outputs			
Analogic outputs - Quantity	(standard)	:2	
Levels		: 0 to 10V, 0 to 20mA and 4 to 20mA	
RL for voltage output		: 10 kΩ	
RL for current output Function		: 500 Ω : Programmable	
Digital outputs		. rogrammabic	
Digital outputs - Quantity (s	(andard)	: 3 NO/NC relays	
Maximum voltage	· · · /	: 240 Vca	
Maximum current		: 1 A	
Function		: Programmable	
 Modbus/TCP (with access) Profibus DP (with access) Profibus DPV1 (with access) Profinet (with accessory) CANopen (with accessory) DeviceNet (with accessory) EtherNet/IP (with accessory) EtherCAT (with accessory) 	ory: PROFDP-05) ssory: PROFIBUS DP-01) PROFINETIO-05) : CAN/RS485-01 or CAN-01) /: DEVICENET-05; CAN/RS485-01 ry: ETHERNET/IP-05 or ETHERNE	or CAN-01)	
Protections available			
 Output overcurrent/short of Power supply phase loss Under/Overvoltage in pow Overtemperature Motor overload IGBT's modules overload Fault/External alarm Breaking resistor overload 	er		
 CPU or memory failure Output phase-ground show 	t circuit		
Operation interface (HI			
Avaliability	,	: Included in the product	
Installation		: Local	
Number of HMI buttons		: 9 · Craphia I CD	
Display Indication accuracy		: Graphic LCD : 5% of rated current	
Speed resolution		: 1 rpm	
		·	
	The informatic	on contained are reference	
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Operation interface (HMI)	17.50		
Standard HMI degree of protection	: IP56		
HMI battery type	: CR2032		
HMI battery life expectancy	: 10 years		
Remote HMI type	: Detachable of the inv	verter	
Remote HMI frame	: Accessory	: Accessory	
Remote HMI degree of protection	: IP56	: IP56	
Ambient conditions			
Enclosure	: IP55		
Degree of pollution	: 2		
Temperature			
- Minimum	: -10 °C / 14 °F		
- Nominal [4]		: 40 °C / 104 °F	
Current reduction factor [5]		: 2 % per °C of 40 (104) to 50 °C (122 °F)	
Relative humidity (non-condensing)			
- Minimum	: 5%		
	: 90%		
- 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 ra		: 1% for each 100 m above	
- Voltage derating factor (for altitudes above 2	2000 m / 6562 ft) : 1,1% for each 100 m	above	
Sustainability policies			
RoHS	: Yes	: Yes	
Conformal Coating		:	
Dimensions			
Size	: D		
	: 754 mm / 29.7 in		
Height			
Width	: 375 mm / 14.76 in		
Depth	: 301.3 mm / 11.8 in		
Weight	: 49 kg / 108 lb		
Mechanical installation			
Mounting position	: Surface or flange		
Fixing screw	: M8		
Tightening torque	: 20 N.m / 14.76 lb.ft	: 20 N.m / 14.76 lb.ft	
Allows side-by-side assembly	: No	: No	
Minimum spacing around the inverter			
- Top	: 110 mm / 4.33 in		
- Bottom	: 130 mm / 5.12 in		
- Front	: 10 mm / 0.39 in		
- Side	: 30 mm / 1.18 in		
Electrical connections			
Cable gauges and tightening torque:			
	Recommended cable	Recommended tightening torque	
	gauge to 75 °C (167 °F)		
Power			
Braking	35 mm² (2 AWG)		
Grounding			
Control	0,5 to 1,5 mm ² (20 to 14 AWG)	0,5 N.m / 0.37 lb.ft	
	0,0 10 1,0 mm (20 10 14 AWO)	0,0 14.1117 0.07 10.10	

Additional especifications

Additional especifica	tions			
Maximum breaking current		: 111,1 A		
Minimum resistance for the brake resistor		: 3.6 Ω		
Recommended aR fuse		: FNH00-125K-A		
Recommended aR fuse		: Not applicable		
Recommended circuit bre	eaker	: ACW160H-FMU125-3		
Recommended circuit bre				
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, therma	al and energy.	
		- EN 50178 - Electronic equipment for use in power ins	talations	
		- EN 60204-1 - Safety of machinery. Electrical equipme	ent of machines. Part	
		1: General requirements. Note: To have a machine in a	ccordance 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 v	oltage adjustable	
		frequency AC power drive systems.		
40/00/0004	The infor	rmation contained are reference	Page 3/4	
12/02/2021		values. Subject to change without notice.		
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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 Eletromagnetic disturbance characteristics - Limits and methods of measurement. EN 61000-4-2 - Eletromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 2: Eletrostatic discharge immunity test. EN 61000-4-3 - Eletromagnetic compatibility (EMC) - Part4: Testing and measurement techniques - Section 3: Radiated, radio-frequency, electromagnetic field immunity test. EN 61000-4-4 - Eletromagnetic compatibility (EMC) - Part4: Testing and measurement techniques - Section 4: Electrical fast transient/burst immunity test. EN 61000-4-5 - Eletromagnetic compatibility (EMC) - Part4: Testing and measurement techniques - Section 5: Surge immunity test. EN 61000-4-6 - Eletromagnetic compatibility (EMC) - Part4: Testing and measurement techniques - Section 5: Surge immunity test.
	measurement techniques - Section 6: Immunity to conducted disturbances, induced by radio-frequency fields.
Mechanical construction	 - EN 60529 - Degrees of protection provided by enclosures (IP code). - UL 50 - Enclosures for electrical equipment. - EN 60529 e UL 50

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;

8) For more information, see the users manual of the CFW-11 (size D).