

	Main Featur	es			
	Reference Product code Product line	: NACFW110211T4O55DSZ : 14320482 : CFW11			
Basic data Power supply Input minimum-maximum volta Number of phases Input	ge	: 380-4 : :	180 V		
Output		: 3			
Supply voltage range		380-4			-480 V
Overload regime Rated current		Normal (ND)	Heavy (HD)	Normal (ND)	Heavy (HD)
Overload current at 60 s		211A 232A	180 270A		
Overload current at 3 s		316A	360.0		
		0.10,1			
Maximum applicabl				10/1 [4]	
Voltage/Frequen	су	Normal Overlaged (Power (HP / I		
380V / 50Hz		Normal Overload (150 / 110	(טא)	Heavy Over 125 /	
380V / 50Hz		150 / 110		125 /	
400V / 50Hz		150 / 110		125 /	
400V / 60Hz		150 / 110		125 /	
440V / 50Hz		150 / 110		150 /	
440V / 60Hz	z 150 /		50 / 110		110
460V / 60Hz		175 / 132		150 /	
480V / 60Hz		175 / 132		150 /	110
External filter Link Inductor Memory card USB port Line frequency Line frequency range (minimur Phase unbalance Transient voltage and overvolta Rated current of single-phase in - Overload (ND) - Overload (HD) Rated current of three-phase in - Overload (HD) Power factor Displacement factor Rated efficiency Maximum connections (power DC power supply Standard switching frequency - Overload HD Selectable switching frequency	age input nput up cycles - on/off) per h	: Yes : Incluc : Stanc : 50/60 : 48-62 : Less : Categ : : : : : : : : : : : : :	2 Hz or equal to 3% of in gory III %	put rated line voltage	3
Real-time clock COPY Function Dissipated power: Mounting type		: Yes, I	n the HMI by HMI/MMF	Overload (*)
0	ND	HD		ND	HD Nat applicable
Surface	2330 W 360 W	1940 W 350 W		oplicable	Not applicable
Flange		300 VV	inot a	oplicable	Not applicable
Source available to the us Output voltage Maximum capacity	ser	: 24 Vo : 500 n			
	The information contained are reference values. Subject to change without notice.Page 1/4				



Control/performance da	ata		
Power supply		: Switched-mode power supply	
Control method Encoder interface		: V/f, VVW, Vector and PM motor : Only with 'Slot 2' accessory	
Control output frequency		: 0 to 300 Hz	
Frequency resolution		: Equivalent to 1 rpm	
V/F Control			
- Speed resolution		: 1% of rated speed	
- Speed range		: 1:20	
VVW Control			
 Speed resolution 		: 1% of rated speed	
- Speed range		: 1:30	
Sensorless vector control			
Speed resolution		: 0,5% of rated speed	
- Speed range		: 1:100	
Vector control with encoder - Speed resolution		: 0,05% of rated speed	
- Speed resolution		: Up to 0 rpm	
Analog inputs		. 0	
Quantity (standard)		: 2 : 0 10\/ 0/4 20mA and 10 110\/	
_evels		: 0-10V, 0/4-20mA and -10-+10V	
mpedance	ıt	: 400 kΩ	
 Impedance for voltage input Impedance for current input 		: 500 Ω	
- Impedance for current inpu	JL	: Programmable	
Maximum allowed voltage		: ±30 Vcc	
•		. 100 100	
Digital inputs	adard)	. 6	
Digital inputs - Quantity (sta Activation	iuaiu)	: 6 : Active low and high	
Activation Maximum low level		: Active low and high : 3 V	
Minimum high level		: 18 V	
nput current		: 11 mA	
Maximum input current		: 13,5 mA	
Function		: Programmable	
Maximum allowed voltage		: 30 Vcc	
Analog outputs			
Analogic outputs - Quantity	(standard)	: 2	
Levels	,oraniaana)	: 0 to 10V, 0 to 20mA and 4 to 20mA	
RL for voltage output		: 10 kΩ	
RL for current output		: 500 Ω	
Function		: Programmable	
Digital outputs		y	
Digital outputs - Quantity (st	andard)	: 3 NO/NC relays	
Maximum voltage		: 240 Vca	
Maximum current		: 1 A	
Function		: Programmable	
Communication			
- Modbus/TCP (with access - Profibus DP (with accesso - Profibus DPV1 (with accesso - Profinet (with accessory: P - CANopen (with accessory: - DeviceNet (with accessory - EtherNet/IP (with accessory: - EtherCAT (with accessory:	ry: PROFDP-05) sory: PROFIBUS DP-01) ROFINETIO-05) CAN/RS485-01 or CAN-01) : DEVICENET-05; CAN/RS485-01 or C y: ETHERNET/IP-05 or ETHERNETIP	CAN-01)	
· · · · · ·			
Protections available	irou it		
 Output overcurrent/short ci Power supply phase loss 	rcuit		
- Under/Overvoltage in powe	er		
- Overtemperature	~		
- Motor overload			
· IGBT's modules overload			
Fault/External alarm			
Breaking resistor overload			
- CPU or memory failure			
	t circuit		
Output phase-ground shor			
	11)		
- Output phase-ground shor Operation interface (HN Avaliability	11)	· Included in the product	
Operation interface (HN Avaliability	11)	: Included in the product	
Operation interface (HN Avaliability nstallation	11)	: Local	
Operation interface (HN Avaliability nstallation	11)	•	
Operation interface (HN Avaliability		: Local	Page 2/4

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Valiable Speed Drives				
Operation interface (HMI)				
Display		: Graphic LCD		
Indication accuracy		: 5% of rated current		
Speed resolution		: 1 rpm		
Standard HMI degree of protection		•		
0 1		: IP56 : CR2032 : 10 years		
HMI battery type				
HMI battery life expectancy Remote HMI type				
		: Detachable of the inverter		
Remote HMI frame Remote HMI degree of protection		: Accessory : IP56		
o ,		. 1630		
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%		
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 r		: 1% for each 100 m at		
 Voltage derating factor (for altitudes above 2 	2000 m / 6562 ft)	: 1,1% for each 100 m	above	
Sustainability policies				
RoHS		: Yes		
Conformal Coating				
Dimensions		-		
		· F		
Size		: E		
leight		: 1000 mm / 39.4 in : 430 mm / 16 9 in		
Nidth		: 430 mm / 16.9 in : 389 mm / 15.3 in		
Depth				
Neight		: 96 kg / 211.6 lb		
Mechanical installation				
Mounting position		: Surface or flange		
Fixing screw		: M8		
Fightening torque		: 20 N.m / 14.76 lb.ft		
Allows side-by-side assembly		: No		
Minimum spacing around the inverter				
- Тор		: 150 mm / 5.91 in		
Bottom		: 250 mm / 9.84 in		
Front		: 20 mm / 0.78 in		
Side		: 80 mm / 3.15 in		
Electrical connections				
Cable gauges and tightening torque:				
		mended cable	Recommended tightening torque	
	gauge to	75 °C (167 °F)		
Power				
Braking	Not	applicable		
Grounding				
Control	0,5 to 1,5 mm ² (20 to 14 AWG)		0,5 N.m / 0.37 lb.ft	
		· · · ·	· · · · · · · · · · · · · · · · · · ·	
Additional especifications				
Maximum breaking current		: Not available		
Minimum resistance for the brake resistor		: Not available		
		: FNH1-400K-A		
Recommended aR fuse				
Recommended aR fuse Recommended aR fuse		: Not applicable		
Recommended aR fuse			3	
Recommended aR fuse Recommended aR fuse		: Not applicable	3	
Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker		: Not applicable : ACW250H-ATU250-	3	
Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards		: Not applicable : ACW250H-ATU250- : Not applicable		
Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker	- UL 508	: Not applicable : ACW250H-ATU250- : Not applicable C - Power conversion equip	oment.	
Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards	- UL 840	: Not applicable : ACW250H-ATU250- : Not applicable C - Power conversion equip - Insulation coordination in	oment.	
Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards	- UL 840 for electr	: Not applicable : ACW250H-ATU250- : Not applicable C - Power conversion equip - Insulation coordination in ical equipment.	oment. cluding clearances and creepage distances	
Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards	- UL 840 for electr - EN 618	: Not applicable : ACW250H-ATU250- : Not applicable C - Power conversion equip - Insulation coordination in ical equipment. 00-5-1 - Safety requiremen	oment. cluding clearances and creepage distances ts electrical, thermal and energy.	
Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards	- UL 840 for electr - EN 618 - EN 501	: Not applicable : ACW250H-ATU250- : Not applicable C - Power conversion equip - Insulation coordination in ical equipment. 00-5-1 - Safety requiremen 78 - Electronic equipment f	oment. cluding clearances and creepage distances ts electrical, thermal and energy. for use in power instalations	
Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards	- UL 840 for electr - EN 618 - EN 501	: Not applicable : ACW250H-ATU250- : Not applicable C - Power conversion equip - Insulation coordination in ical equipment. 00-5-1 - Safety requiremen 78 - Electronic equipment f	oment. cluding clearances and creepage distances ts electrical, thermal and energy.	
Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards	- UL 840 for electr - EN 618 - EN 501 - EN 602 1: Gener	: Not applicable : ACW250H-ATU250- : Not applicable C - Power conversion equip - Insulation coordination in ical equipment. 00-5-1 - Safety requiremen 78 - Electronic equipment f 04-1 - Safety of machinery. al requirements. Note: To h	oment. cluding clearances and creepage distances ts electrical, thermal and energy. for use in power instalations Electrical equipment of machines. Part ave a machine in accordance with this	
Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards	- UL 840 for electr - EN 618 - EN 501 - EN 602 1: Gener	: Not applicable : ACW250H-ATU250- : Not applicable C - Power conversion equip - Insulation coordination in ical equipment. 00-5-1 - Safety requiremen 78 - Electronic equipment f 04-1 - Safety of machinery. al requirements. Note: To h	oment. cluding clearances and creepage distances ts electrical, thermal and energy. for use in power instalations Electrical equipment of machines. Part ave a machine in accordance with this	
Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards	- UL 840 for electr - EN 618 - EN 501 - EN 602 1: Gener standard	: Not applicable : ACW250H-ATU250- : Not applicable C - Power conversion equip - Insulation coordination in ical equipment. 00-5-1 - Safety requiremen 78 - Electronic equipment f 04-1 - Safety of machinery. al requirements. Note: To h	oment. cluding clearances and creepage distances ts electrical, thermal and energy. for use in power instalations Electrical equipment of machines. Part ave a machine in accordance with this r is responsible for installing an emergency	



	- EN 61800-2 - Adjustable speed electrical power drive systems - Part 2: General requirements - Rating especifications 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.
	 - 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 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

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;

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