

	Main Featu	res				
	Reference Product code Product line	: NACFW110005T4O55DSZ : 13957529 : CFW11				
Basic data Power supply		: 380-4	190.1/			
Input minimum-maximum volta Number of phases	age	: 300-4	60 V			
Input Output		: 3				
Supply voltage range		380-4	80 V		380-480 V	
Overload regime		Normal (ND)	Heavy (HD)	Normal (ND	) Heavy (HD)	
Rated current		5A	5			
Overload current at 60 s		5,5A	7,5A			
Overload current at 3 s		7,5A	10.0			
Maximum applicabl	le motor					
Voltage/Frequen			Power (HF			
		Normal Overload	ND)		Dverload (HD)	
380V / 50Hz		3 / 2,2		3/2,2		
380V / 60Hz 400V / 50Hz		2 / 1,5	2 / 1,5		2 / 1,5	
400V / 50Hz 400V / 60Hz		2 / 1,5			3 / 2,2 2 / 1,5	
400 V / 00112 440 V / 50 Hz		3 / 2,2			3 / 2,2	
440V / 60Hz		3 / 2,2			3/2,2	
460V / 60Hz		3 / 2,2			3 / 2,2	
480V / 60Hz		3 / 2,2		:	3 / 2,2	
External filter Link Inductor Memory card USB port Line frequency Phase unbalance Transient voltage and overvolt Rated current of single-phase - Overload (ND) - Overload (HD) Rated current of three-phase in - Overload (ND) - Overload (HD) Power factor Displacement factor Rated efficiency Maximum connections (power DC power supply Standard switching frequency - Overload HD Selected a paidabaa	age input nput up cycles - on/off) per h	: Yes : Inclu : Stand : 50/60 : 48-62 : Less : Cate : : : : : : : : : : : : :	2 Hz or equal to 3% o gory III %	ct f input rated line volt	tage	
Selectable switching frequency Real-time clock COPY Function Dissipated power: Mounting type		: Yes, : Yes,	2; 2,5; 5 and 10 in the HMI by HMI/MMF	kHz Overloa	d (*)	
	ND	Overload HD		ND		
Surface	140 W	140 W	No	tapplicable	HD Not applicable	
Flange	25 W	25 W		t applicable	Not applicable	
Source available to the us Output voltage Maximum capacity	ser	: 24 Vo : 500 r				
12/02/2021	The information contained are reference 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			
<ul> <li>Speed resolution</li> </ul>		: 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	
<ul> <li>Impedance for voltage input Impedance for current input</li> </ul>		: 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		<b>y</b>	
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		
<ul> <li>Output overcurrent/short ci</li> <li>Power supply phase loss</li> </ul>	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	
<b>Operation interface (HN</b> Avaliability	11)	: Included in the product	
<b>Operation interface (HN</b> Avaliability nstallation	11)	: Local	
<b>Operation interface (HN</b> Avaliability nstallation	<b>11</b> )	•	
<b>Operation interface (HN</b> Avaliability		: Local	Page 2/4



variable Speed Drives				
Operation interface (HMI)				
Display		: Graphic LCD		
Indication accuracy		: 5% of rated current		
Speed resolution		: 1 rpm		
Standard HMI degree of protection		: IP56		
HMI battery type		: CR2032		
HMI battery life expectancy		: 10 years		
Remote HMI type		: Detachable of the inve	rter	
Remote HMI frame		: Accessory		
Remote HMI degree of protection		: IP56		
<b>o</b> 1				
Ambient conditions				
Enclosure		: IP55		
Degree of pollution		: 2		
Temperature				
Minimum		: -10 °C / 14 °F		
Nominal [4]		:		
Current reduction factor [5]		:		
Relative humidity (non-condensing)				
Minimum		: 5%		
Maximum		: 90%		
Ntitude				
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	ted)	: 1% for each 100 m abo	ove	
Voltage derating factor (for altitudes above 20		: 1,1% for each 100 m a	bove	
Sustainability policies	,	-		
		: Yes		
RoHS Conformal Coating		. 163		
e e e e e e e e e e e e e e e e e e e				
Dimensions				
Bize		: A		
leight		:		
Vidth		:		
Depth		:		
Veight		:		
Mechanical installation				
Aounting position		: Surface or flange		
Fixing screw		: M5		
Fightening torque		: 5 N.m / 3.69 lb.ft		
Allows side-by-side assembly		: Yes, without top cap		
Animum spacing around the inverter		. Tes, without top cap		
Top		: 25 mm / 0.98 in		
Bottom		: 25 mm / 0.98 in		
Front		: 10 mm / 0.39 in		
Side		: 10 mm / 0.39 m : 30 mm / 1.18 in		
Side		. 30 11117 1.18 11		
Electrical connections				
Cable gauges and tightening torque:	Recom	mended cable	Recommended tightening torgue	
		75 °C (167 °F)	Recommended lightening torque	
Power	yauye iu			
Braking	1 5 ~~~	m² (16 AWG)		
e e e e e e e e e e e e e e e e e e e	1,0 m			
Grounding				
Control	0,5 to 1,5 mi	m <sup>2</sup> (20 to 14 AWG)	0,5 N.m / 0.37 lb.ft	
Additional especifications				
Maximum breaking current		: 5,3 A		
		: 150 Ω		
		: FNH00-20K-A		
Minimum resistance for the brake resistor				
Minimum resistance for the brake resistor Recommended aR fuse				
Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse		: Not applicable		
Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker		: Not applicable : ACW100H-FMU20-3		
Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse		: Not applicable		
Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker		: Not applicable : ACW100H-FMU20-3		
Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker <b>Standards</b>	- 111 508	: Not applicable : ACW100H-FMU20-3 : Not applicable	nent	
Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker		: Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipr		
Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker <b>Standards</b>	- UL 840	: Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipr - Insulation coordination incl		
Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker <b>Standards</b>	- UL 840 for electr	: Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipr - Insulation coordination incl ical equipment.	uding clearances and creepage distance	
Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker <b>Standards</b>	- UL 840 for electr - EN 618	: Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipr - Insulation coordination incl ical equipment. :00-5-1 - Safety requirements	uding clearances and creepage distance e electrical, thermal and energy.	
Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker <b>Standards</b>	- UL 840 for electr - EN 618 - EN 501	: Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipr - Insulation coordination incl ical equipment. :00-5-1 - Safety requirements 78 - Electronic equipment for	uding clearances and creepage distance e electrical, thermal and energy. r use in power instalations	
Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker <b>Standards</b>	- UL 840 for electr - EN 618 - EN 501 - EN 602	: Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipr - Insulation coordination incl ical equipment. 300-5-1 - Safety requirements 78 - Electronic equipment for 204-1 - Safety of machinery. E	uding clearances and creepage distance e electrical, thermal and energy. r use in power instalations Electrical equipment of machines. Part	
Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker <b>Standards</b>	- UL 840 for electr - EN 618 - EN 501 - EN 602 1: Gener	: Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipr - Insulation coordination incl ical equipment. 300-5-1 - Safety requirements 78 - Electronic equipment for 204-1 - Safety of machinery. E ral requirements. Note: To ha	uding clearances and creepage distance e electrical, thermal and energy. r use in power instalations Electrical equipment of machines. Part ve a machine in accordance with this	
Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker <b>Standards</b>	- UL 840 for electr - EN 618 - EN 501 - EN 602 1: Gener standard	: Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipr - Insulation coordination incl ical equipment. 300-5-1 - Safety requirements 78 - Electronic equipment fo 204-1 - Safety of machinery. E ral requirements. Note: To ha I, the machine manufacturer i	uding clearances and creepage distance e electrical, thermal and energy. r use in power instalations Electrical equipment of machines. Part ve a machine in accordance with this is responsible for installing an emergenc	
Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker <b>Standards</b>	- UL 840 for electr - EN 618 - EN 501 - EN 602 1: Gener standard stop dev	: Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipr - Insulation coordination incl ical equipment. 300-5-1 - Safety requirements 78 - Electronic equipment for 204-1 - Safety of machinery. E ral requirements. Note: To ha	uding clearances and creepage distance e electrical, thermal and energy. r use in power instalations Electrical equipment of machines. Part ve a machine in accordance with this is responsible for installing an emergency device.	



	<ul> <li>EN 61800-2 - Adjustable speed electrical power drive systems - Part 2:</li> <li>General requirements - Rating especifications for low voltage adjustable</li> </ul>
	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.
	<ul> <li>CISPR 11 - Industrial, scientific and medical (ISM) radio-frequency equipment</li> <li>Eletromagnetic disturbance characteristics - Limits and methods of measurement.</li> </ul>
	<ul> <li>EN 61000-4-2 - Eletromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 2: Eletrostatic discharge immunity test.</li> <li>EN 61000-4-3 - Eletromagnetic compatibility (EMC) - Part4: Testing and measurement techniques - Section 3: Radiated, radio-frequency,</li> </ul>
	electromagnetic field immunity test.
	<ul> <li>EN 61000-4-4 - Eletromagnetic compatibility (EMC) - Part4: Testing and measurement techniques - Section 4: Electrical fast transient/burst immunity test.</li> </ul>
	<ul> <li>EN 61000-4-5 - Eletromagnetic compatibility (EMC) - Part4: Testing and measurement techniques - Section 5: Surge immunity test.</li> </ul>
	<ul> <li>EN 61000-4-6 - Eletromagnetic compatibility (EMC) - Part4: Testing and measurement techniques - Section 6: Immunity to conducted disturbances, induced by radio-frequency fields.</li> </ul>
Mechanical construction	<ul> <li>EN 60529 - Degrees of protection provided by enclosures (IP code).</li> <li>UL 50 - Enclosures for electrical equipment.</li> <li>EN 60529 e UL 50</li> </ul>

### 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 A).