

	Main Featu	res			
Reference Product code Product line		: NACFW110003T4O55DSZ : 13957487 : CFW11			
Basic data					
Power supply Input minimum-maximum volta Number of phases	age	: 380-4 :	180 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		3,6A	3.5		
Overload current at 60 s		3,96A	5,25A		
Overload current at 3 s		5,4A	7.2		
Maximum annlisch	a motor				
Maximum applicabl Voltage/Frequen			Power (HP / k	\\\/\ [1]	
voltage/Frequen		Normal Overload (Heavy Ove	rload (HD)
380V / 50Hz		2 / 1,5			
380V / 60Hz		2 / 1,5		2 / 1,5 2 / 1,5	
400V / 50Hz		2 / 1,5		2 / 1,5	
400V / 60Hz		2 / 1,5		2/	
440V / 50Hz		2 / 1,5		271,5	
440V / 60Hz		2 / 1,5		2 / 1,5	
460V / 60Hz		2 / 1,5		2/	
480V / 60Hz		2 / 1,5		2/	
RFI internal filter [3] External filter Link Inductor Memory card USB port Line frequency Line frequency range (minimut 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 Selectable switching frequency Real-time clock	age input nput up cycles - on/off) per h	 Not a Yes Incluc Stanc 50/60 48-62 Less Cates Cates 3,6A 3,5 A 0,94 0,98 ≥ 979 nour 60 5 kHz 5 kHz 5 kHz 5 kHz 5 kHz 2 5 kHz 1,25; Yes, i 	2 Hz or equal to 3% of in gory III % 2; 2,5; 5 and 10 kHz in the HMI	put rated line voltage	9
COPY Function Dissipated power: Mounting type	0	: Yes, I	by HMI/MMF	Overload (*)
	ND	HD		ND	HD
Surface	130 W	110 W		plicable	Not applicable
Flange	25 W	25 W	Not ap	plicable	Not applicable
Source available to the us	ser				
Output voltage Maximum capacity		: 24 Vo : 500 n			
	The information contained are reference F values. Subject to change without notice.				



• • • • • •			
Control/performance da Power supply	ata	: Switched-mode power supply	
Control method		: V/f, VVW, Vector and PM motor	
Encoder interface		: 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 VVW Control		: 1:20	
- 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 range		: Up to 0 rpm	
Analog inputs		-	
Quantity (standard)		:2	
Levels		: 0-10V, 0/4-20mA and -10-+10V	
mpedance · Impedance for voltage inpu	ıt	: 400 kΩ	
- Impedance for current input		: 500 Ω	
		: Programmable	
Maximum allowed voltage		: ±30 Vcc	
Digital inputs			
Digital inputs - Quantity (sta	ndard)	: 6	
Activation	,	: Active low and high	
Maximum low level		: 3 V	
Minimum high level		: 18 V	
Input current		: 11 mA	
Maximum input current		: 13,5 mA	
Function		: Programmable	
Maximum allowed voltage		: 30 Vcc	
Analog outputs		. 0	
Analogic outputs - Quantity	(standard)	: 2 : 0 to 10\/ 0 to 20mA and 4 to 20mA	
Levels PL for voltage output		: 0 to 10V, 0 to 20mA and 4 to 20mA : 10 kΩ	
RL for voltage output RL for current output		: 10 κΩ : 500 Ω	
Function		: Programmable	
Digital outputs		3	
Digital outputs - Quantity (st	andard)	: 3 NO/NC relays	
Maximum voltage		: 240 Vca	
Maximum current		: 1 A	
Function		: Programmable	
Communication			
 Modbus/TCP (with accesss Profibus DP (with accesso Profibus DPV1 (with accessory: P CANopen (with accessory: P DeviceNet (with accessory EtherNet/IP (with accessory EtherCAT (with accessory: P 	ry: PROFDP-05) sory: PROFIBUS DP-01) ROFINETIO-05) CAN/RS485-01 or CAN-01) : DEVICENET-05; CAN/RS485-01 or CA y: ETHERNET/IP-05 or ETHERNETIP-2	AN-01)	
Protections available	- /		
 Output overcurrent/short c Power supply phase loss 			
 Under/Overvoltage in power Overtemperature 	er		
- Overtemperature - Motor overload			
- IGBT's modules overload			
- Fault/External alarm			
- Breaking resistor overload			
- CPU or memory failure			
Output phase-ground shor	t circuit		
Operation interface (HM	AI)		
Avaliability	-	: Included in the product	
Installation		: Local	
Number of HMI buttons		: 9	
11/02/2021	The information contained are reference		Page 2/4
	values. Subject to change without notice.		



variable Speed Drives					
Operation interface (HMI)					
Display		: Graphic LCD			
ndication 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 inverter			
Remote HMI frame		: Accessory			
Remote HMI degree of protection		: IP56			
Ambient conditions					
Enclosure		: IP55			
Degree of pollution		: 2			
Temperature		. 10 % / 11 %			
Minimum		: -10 °C / 14 °F			
Nominal [4]					
Current reduction factor [5]					
Relative humidity (non-condensing)		. 50/			
Minimum			: 5%		
Maximum		. 90%	: 90%		
		· 1000 (2001 #)			
Rated conditions		: 1000 m (3281 ft) : 4000 m (12122 ft)			
Maximum altitude allowed for operation		: 4000 m (13123 ft)			
Current Reduction factor[6]	vd)	10/ for each 100 m char	10		
Current derating factor (for altitudes above rate		: 1% for each 100 m abov			
Voltage derating factor (for altitudes above 200	0 m / 6562 π)	: 1,1% for each 100 m ab	ove		
Sustainability policies					
RoHS		: Yes			
Conformal Coating		:			
Dimensions					
Size			: A		
leight					
Vidth					
Depth					
Veight					
Mechanical installation					
Mounting position		: Surface or flange			
ixing screw		: M5			
Fightening torque		: 5 N.m / 3.69 lb.ft			
Allows side-by-side assembly		: Yes, without top cap			
Minimum spacing around the inverter					
Top		: 25 mm / 0.98 in			
Bottom					
		: 25 mm / 0.98 in			
Front		: 10 mm / 0.39 in			
Front Side Electrical connections		: 10 mm / 0.39 in			
Front Side	Decom	: 10 mm / 0.39 in : 30 mm / 1.18 in	Decommonded tightoning torque		
Front Side Electrical connections		: 10 mm / 0.39 in : 30 mm / 1.18 in nended cable	Recommended tightening torque		
Front Side Electrical connections Cable gauges and tightening torque:		: 10 mm / 0.39 in : 30 mm / 1.18 in	Recommended tightening torque		
Front Side Electrical connections Cable gauges and tightening torque:	gauge to	: 10 mm / 0.39 in : 30 mm / 1.18 in nended cable 75 °C (167 °F)	Recommended tightening torque		
Front Side Electrical connections Cable gauges and tightening torque: Power Braking	gauge to	: 10 mm / 0.39 in : 30 mm / 1.18 in nended cable	Recommended tightening torque		
Front Side Electrical connections Cable gauges and tightening torque:	gauge to	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) n² (16 AWG)			
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding	gauge to	: 10 mm / 0.39 in : 30 mm / 1.18 in nended cable 75 °C (167 °F)	Recommended tightening torque		
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control	gauge to	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) n² (16 AWG)			
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications	gauge to	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) n² (16 AWG) m² (20 to 14 AWG)			
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current	gauge to	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) n² (16 AWG) m² (20 to 14 AWG) : 3,6 A			
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor	gauge to	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) n² (16 AWG) m² (20 to 14 AWG) : 3,6 A : 220 Ω			
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse	gauge to	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) n² (16 AWG) m² (20 to 14 AWG) : 3,6 A : 220 Ω : FNH00-20K-A			
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended aR fuse	gauge to	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) n² (16 AWG) m² (20 to 14 AWG) : 3,6 A : 220 Ω : FNH00-20K-A : Not applicable			
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended aR fuse Recommended circuit breaker	gauge to	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) m² (16 AWG) m² (20 to 14 AWG) : 3,6 A : 220 Ω : FNH00-20K-A : Not applicable : ACW100H-FMU20-3			
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended aR fuse	gauge to	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) n² (16 AWG) m² (20 to 14 AWG) : 3,6 A : 220 Ω : FNH00-20K-A : Not applicable			
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Recommended circuit breaker	gauge to	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) m² (16 AWG) m² (20 to 14 AWG) : 3,6 A : 220 Ω : FNH00-20K-A : Not applicable : ACW100H-FMU20-3			
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Recommended circuit breaker Standards	gauge to 1,5 mn 0,5 to 1,5 mr	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) m ² (16 AWG) m ² (20 to 14 AWG) : 3,6 A : 220 Ω : FNH00-20K-A : Not applicable : ACW100H-FMU20-3 : Not applicable	0,5 N.m / 0.37 lb.ft		
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Recommended circuit breaker	gauge to 1,5 mm 0,5 to 1,5 mm	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) m² (16 AWG) m² (20 to 14 AWG) : 3,6 A : 220 Ω : FNH00-20K-A : Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipm	0,5 N.m / 0.37 lb.ft		
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards	gauge to 1,5 mm 0,5 to 1,5 mm - UL 5080 - UL 5080 - UL 840	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) n² (16 AWG) m² (20 to 14 AWG) : 3,6 A : 220 Ω : FNH00-20K-A : Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipm - Insulation coordination inclu	0,5 N.m / 0.37 lb.ft		
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards	gauge to 1,5 mm 0,5 to 1,5 mm - UL 508 - UL 508 for electric	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) n² (16 AWG) m² (20 to 14 AWG) : 3,6 A : 220 Ω : FNH00-20K-A : Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipm - Insulation coordination incluiced equipment.	0,5 N.m / 0.37 lb.ft ent. iding clearances and creepage distance		
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Recommended circuit breaker Standards	gauge to 1,5 mm 0,5 to 1,5 mm 0,5 to 1,5 mm - UL 508 - UL 508 - UL 840 for electri - EN 618	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) n² (16 AWG) m² (20 to 14 AWG) : 3,6 A : 220 Ω : FNH00-20K-A : Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipm - Insulation coordination incluical equipment. 00-5-1 - Safety requirements	0,5 N.m / 0.37 lb.ft 0,5 N.m / 0.37 lb.ft ent. Iding clearances and creepage distance electrical, thermal and energy.		
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards	gauge to 1,5 mn 0,5 to 1,5 mr 0,5 to 1,5 mr - UL 508 - UL 840 for electr - EN 618 - EN 501	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) n² (16 AWG) m² (20 to 14 AWG) : 3,6 A : 220 Ω : FNH00-20K-A : Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipm - Insulation coordination incluical equipment. 00-5-1 - Safety requirements 78 - Electronic equipment for	0,5 N.m / 0.37 lb.ft 0,5 N.m / 0.37 lb.ft ent. ding clearances and creepage distance electrical, thermal and energy. use in power instalations		
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards	gauge to 1,5 mn 0,5 to 1,5 mr 0,5 to 1,5 mr - UL 508 - UL 840 for electr - EN 618 - EN 501 - EN 602	 10 mm / 0.39 in 30 mm / 1.18 in mended cable 75 °C (167 °F) m² (16 AWG) m² (20 to 14 AWG) 120 Ω FNH00-20K-A Not applicable ACW100H-FMU20-3 Not applicable C - Power conversion equipm Insulation coordination incluical equipment. 00-5-1 - Safety requirements 78 - Electronic equipment for 04-1 - Safety of machinery. E 	ent. ding clearances and creepage distance electrical, thermal and energy. use in power instalations ectrical equipment of machines. Part		
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards	gauge to 1,5 mn 0,5 to 1,5 mr 0,5 to 1,5 mr - UL 508 - UL 840 for electr - EN 618 - EN 501 - EN 602 1: Gener	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) n ² (16 AWG) m ² (20 to 14 AWG) : 3,6 A : 220 Ω : FNH00-20K-A : Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipm - Insulation coordination incluical equipment. 00-5-1 - Safety requirements 78 - Electronic equipment for 04-1 - Safety of machinery. E al requirements. Note: To hav	0,5 N.m / 0.37 lb.ft 0,5 N.m / 0.37 lb.ft ding clearances and creepage distance electrical, thermal and energy. use in power instalations lectrical equipment of machines. Part e a machine in accordance with this		
Front Side Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker Recommended circuit breaker Standards	gauge to 1,5 mm 0,5 to 1,5 mm 0,5 to 1,5 mm - UL 508 - UL 840 for electri - EN 618 - EN 501 - EN 602 1: Generni standard	: 10 mm / 0.39 in : 30 mm / 1.18 in mended cable 75 °C (167 °F) n ² (16 AWG) m ² (20 to 14 AWG) : 3,6 A : 220 Ω : FNH00-20K-A : Not applicable : ACW100H-FMU20-3 : Not applicable C - Power conversion equipm - Insulation coordination incluical equipment. 00-5-1 - Safety requirements 78 - Electronic equipment for 04-1 - Safety of machinery. E al requirements. Note: To hav	0,5 N.m / 0.37 lb.ft 0,5 N.m / 0.37 lb.ft ding clearances and creepage distance electrical, thermal and energy. use in power instalations lectrical equipment of machines. Part e a machine in accordance with this 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 A).