

	Main Featu	ires			
	Reference Product code Product line		: NACF : 13537 : CFW1		
Basic data Power supply		: 200-	240 V		
Input minimum-maximum vo Number of phases Input	ltage	:			
Output		: 3			
Supply voltage range		200-2	240 V	200)-240 V
Overload regime		Normal (ND)	Heavy (HD)	Normal (ND)	Heavy (HD)
Rated current		45A	36		
Overload current at 60 s		49,5A	54A		
Overload current at 3 s		67,5A	72.0		
Maximum applica	ble motor				
Voltage/Freque			Power (HP /	kW) [1]	
		Normal Overload		Heavy Ove	rload (HD)
220V / 50H	Z	15 / 11	× /	12,5	
220V / 60H		15 / 11		12,5	
230V / 50H	Z	15 / 11		12,5	
230V / 60H	Z	15 / 11		12,5	
Safety Stop RFI internal filter [3] External filter Link Inductor Memory card USB port Line frequency range (minim Phase unbalance Transient voltage and overvo Rated current of single-phas - Overload (ND) - Overload (HD) Rated current of three-phase - Overload (ND) - Overload (HD) Power factor Displacement factor Rated efficiency Maximum connections (power DC power supply Standard switching frequent - Overload ND - Overload HD Selectable switching frequent Real-time clock COPY Function Dissipated power:	oltage e input e input er up cycles - on/off) per y		2 Hz or equal to 3% of ir gory III %	nput rated line voltag	e
Mounting type	C	Dverload		Overload (*	*)
5 - 5 - 5 - 7	ND	HD		ND	HD
Surface	590 W	450 W		pplicable	Not applicable
Flange	90 W	70 W	Not a	pplicable	Not applicable
Source available to the Output voltage Maximum capacity	user	: 24 V : 500 i			
Control/performance da Power supply Control method	ta	: V/f, \	ched-mode power s /VW, Vector and PN with 'Slot 2' access	/ motor	
Encoder interface	: Only with 'Slot 2' accessory The information contained are reference values. Subject to change without notice. Page				

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)	
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	
- 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 rated)	: 1% for each 100 m above
- Voltage derating factor (for altitudes above 2000 m / 6562 ft)	: 1,1% for each 100 m above
Sustainability policies	
RoHS	: Yes
Conformal Coating	:
Dimensions	
Size	: C
Height	: 670 mm / 26.4 in
Width	: 307 mm / 12.09 in
Depth	: 306 mm / 12.0 in
Weight	: 30 kg / 66.1 lb
Mechanical installation	C C
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	
- 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:	
Decom	mondod cable Bocommondod tightoping tor

	Recommended cable gauge to 75 °C (167 °F)	Recommended tightening torque
Power		
Braking	10,0 mm² (8 AWG)	
Grounding		
Control	0,5 to 1,5 mm ² (20 to 14 AWG)	0,5 N.m / 0.37 lb.ft
Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse Recommended circuit breaker	: 44,0 A : 9.1 Ω : FNH00-80K-A : Not applicable : ACW100H-FMU50-3 : Not applicable	

Standards		
Safety	 UL 508C - Power conversion equipment. UL 840 - Insulation coordination including clearances for electrical equipment. EN 61800-5-1 - Safety requirements electrical, thermation in the second structure of the second struc	al and energy. talations ent of machines. Part ccordance with this installing an emergency systems - Part 2:
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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 C).