

an s	Main Featur	es				
	Reference Product code Product line		: EUCF : 13107 : CFW1			
Basic data Power supply Input minimum-maximum vo Number of phases	ltage	: 380-4 : 323-5				
Input Output		: 3 : 3				
Supply voltage range		380-4	180 V	38	0-480 V	
Overload regime		Normal (ND)	Heavy (HD)	Normal (ND)	Heavy (HD)	
Rated current		877A	691			
Overload current at 60 s		965A	1037A			
Overload current at 3 s		1316A	1382.0			
Maximum applica	ble motor					
Voltage/Freque			Power (HP /	kW) [1]		
· ·		Normal Overload (Heavy Ove		
380V / 50H		610 / 450		500 /		
380V / 60H		650 / 480		500 /		
400V / 50H		680 / 500		500 /		
400V / 60H		650 / 480		500 / 370		
440V / 50H		750 / 560		550		
440V / 60H		750 / 560		550		
460V / 60H 480V / 60H		750 / 560 750 / 560			600 / 440 600 / 440	
Dynamic braking [2]			dard without brakin			
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-phase - Overload (ND) - Overload (HD) Rated current of three-phase - Overload (HD) Power factor Displacement factor Rated efficiency Maximum connections (power DC power supply Standard switching frequence - Overload ND - Overload HD Selectable switching frequer Real-time clock COPY Function	oltage e input e input er up cycles - on/off) per h cy	 Not a No Includ Stand 50/60 48-62 Less Cates Cates 691A 0,94 0,98 ≥ 979 nour 60 Not a 2 kHz 2 kHz 2 kHz 1,25 Yes, 1 	2 Hz or equal to 3% of i gory III % //	nput rated line voltag	e	
Dissipated power: Mounting type	Ov	verload		Overload (*)	
- J-7F-	ND	HD		ND	HD	
Curface	10993 W	8836 W		applicable	Not applicable	
Surface		751 W	Not a	applicable	Not applicable	
Flange	759 W					
		10110	1			
Flange		: 24 Vo : 500 r				



Control/performance d	ata		
Power supply		: Switched-mode power supply	
Control method Encoder interface		: V/f, VVW, Vector and PM motor	
Control output frequency		: Only with 'Slot 2' accessory : 0 to 300 Hz	
Frequency resolution		: Equivalent to 1 rpm	
V/F Control		, - r	
 Speed resolution 		: 1% of rated speed	
- Speed range		: 1:20	
VVW Control		· 10/ of rotod around	
 Speed resolution Speed range 		: 1% of rated speed : 1:30	
Sensorless vector control		. 1.50	
- 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 : 0 10/ 0/4 20mA and 10 \pm 10/	
_evels mpedance		: 0-10V, 0/4-20mA and -10-+10V	
- Impedance for voltage inp	ıt	: 400 kΩ	
- Impedance for current inpl		: 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 : Programmable	
⁻ unction Vaximum allowed voltage		: Programmable : 30 Vcc	
•			
Analog outputs Analogic outputs - Quantity	(standard)	: 2	
Analogic outputs - Quantity	(stanuaru)	: 2 : 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			
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 access) Profibus DPV1 (with access) Profinet (with accessory: F 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)	
	-0+00+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0		
Protections available - Output overcurrent/short c - Power supply phase loss	rcuit		
 Under/Overvoltage in pow Overtemperature 	5L		
- 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			
Avaliability	,	: Included in the product	
Installation		: Local	
Number of HMI buttons		: 9	
24/09/2020	The information c	contained are reference	Page 2/4
27/03/2020	values. Subject to	change without notice.	1 aye 2/4



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 inv	verter	
Remote HMI frame		: Accessory		
Remote HMI degree of protection		: IP56		
Ambient conditions				
		1000		
Enclosure		: IP20		
Degree of pollution		: 2		
Temperature				
Minimum		: -10 °C / 14 °F		
Nominal [4]		: 40 °C / 104 °F		
Current reduction factor [5]		: 2 % per °C of 45 (113	3) to 55 °C (131 °F)	
Relative humidity (non-condensing)				
Minimum		: 5%		
Maximum		: 90%		
		. 90 /8		
		1000 (0001 #)		
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 a	bove	
Voltage derating factor (for altitudes above 2	2000 m / 6562 ft)	: 1,1% for each 100 m	above	
Sustainability policies				
RoHS		: Yes		
Conformal Coating		: 3C2		
Dimensions				
Size		: H		
leight		: 1414 mm / 55.7 in		
Vidth		: 686 mm / 27.0 in		
Depth		: 420,8 mm / 16.6 in		
Veight		: 213 kg / 469.6 lb		
•		. 213 kg / 409.0 lb		
Mechanical installation				
Mounting position		: Surface or flange		
Fixing screw		: M10		
Fightening torque		: 37 N.m / 27.31 lb.ft		
Allows side-by-side assembly		: No		
Vinimum spacing around the inverter		. 110		
· Top		: 150 mm / 5.91 in		
•				
Bottom		: 250 mm / 9.84 in		
Front		: 20 mm / 0.78 in		
		: 80 mm / 3.15 in		
Side				
Electrical connections				
Electrical connections	Recomm	nended cable	Recommended tightening torque	
Electrical connections		nended cable	Recommended tightening torque	
Electrical connections Cable gauges and tightening torque:	gauge to	75 °C (167 °F)		
Electrical connections Cable gauges and tightening torque:	gauge to 4x 120 mm ²	75 °C (167 °F) (4x 4/0 AWG) HD	60 N.m / 44,28 lb.ft	
Electrical connections Cable gauges and tightening torque: Power Braking	gauge to 4x 120 mm ² Not a	75 °C (167 °F) (4x 4/0 AWG) HD applicable	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft	
Electrical connections Cable gauges and tightening torque: Power Braking Grounding	gauge to 4x 120 mm ² Not a 2x 95 mm	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG)	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft	
Electrical connections Cable gauges and tightening torque: Power Braking Grounding	gauge to 4x 120 mm ² Not a 2x 95 mm	75 °C (167 °F) (4x 4/0 AWG) HD applicable	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft	
Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control	gauge to 4x 120 mm ² Not a 2x 95 mm	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG)	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft	
Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications	gauge to 4x 120 mm ² Not a 2x 95 mm	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG)	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft	
Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current	gauge to 4x 120 mm ² Not a 2x 95 mm	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft	
Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications	gauge to 4x 120 mm ² Not a 2x 95 mm	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG)	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft	
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Electrical connections Cable gauges and tightening torque: Power Braking Grounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor	gauge to 4x 120 mm ² Not a 2x 95 mm	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available : Not available	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft	
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	gauge to 4x 120 mm ² Not a 2x 95 mm	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available : Not available : FNH3-800K-A	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft	
Electrical connections Cable gauges and tightening torque: Power Braking Brounding Control Additional especifications Maximum breaking current Minimum resistance for the brake resistor Recommended aR fuse Recommended aR fuse	gauge to 4x 120 mm ² Not a 2x 95 mm	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available : Not available : FNH3-800K-A : Not applicable : To define	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft	
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	gauge to 4x 120 mm ² Not a 2x 95 mm	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available : Not available : FNH3-800K-A : Not applicable	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft	
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	gauge to 4x 120 mm ² Not a 2x 95 mm	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available : Not available : FNH3-800K-A : Not applicable : To define	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft	
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	gauge to 4x 120 mm ² Not a 2x 95 mm 0,5 to 1,5 mm	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available : Not available : FNH3-800K-A : Not applicable : To define	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft 0,5 N.m / 0.37 lb.ft	
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 4x 120 mm ² Not a 2x 95 mm 0,5 to 1,5 mm	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available : Not available : FNH3-800K-A : Not applicable : To define : Not applicable	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft 0,5 N.m / 0.37 lb.ft	
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 4x 120 mm² Not a 2x 95 mm 0,5 to 1,5 mm 0,5 to 1,5 mm - UL 5080 - UL 840	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available : Not available : FNH3-800K-A : Not applicable : To define : Not applicable C - Power conversion equi - Insulation coordination in	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft 0,5 N.m / 0.37 lb.ft	
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 4x 120 mm² Not a 2x 95 mm 0,5 to 1,5 mm 0,5 to 1,5 mm - UL 5080 - UL 840 for electri	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available : Not available : FNH3-800K-A : Not applicable : To define : Not applicable C - Power conversion equi - Insulation coordination in ical equipment.	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft 0,5 N.m / 0.37 lb.ft pment. ncluding clearances and creepage distance	
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 4x 120 mm² Not a 2x 95 mm 0,5 to 1,5 mm - UL 5080 - UL 840 for electri - EN 6180	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available : Not available : FNH3-800K-A : Not applicable : To define : Not applicable C - Power conversion equi - Insulation coordination in ical equipment. 00-5-1 - Safety requiremer	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft 0,5 N.m / 0.37 lb.ft pment. Including clearances and creepage distance	
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 4x 120 mm² Not a 2x 95 mm 0,5 to 1,5 mm 0,5 to 1,5 mm - UL 5080 - UL 840 for electri - EN 6180 - EN 501	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available : Not available : FNH3-800K-A : Not applicable : To define : Not applicable C - Power conversion equi - Insulation coordination in ical equipment. 00-5-1 - Safety requirement	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft 0,5 N.m / 0.37 lb.ft pment. ncluding clearances and creepage distance nts electrical, thermal and energy. for use in power instalations	
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 4x 120 mm² Not a 2x 95 mm 0,5 to 1,5 mm 0,5 to 1,5 mm - UL 5080 - UL 840 for electri - EN 6180 - EN 6180 - EN 501 - EN 6020	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available : Not available : FNH3-800K-A : Not applicable : To define : Not applicable C - Power conversion equi - Insulation coordination in ical equipment. 00-5-1 - Safety requiremer 78 - Electronic equipment 04-1 - Safety of machinery	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft 0,5 N.m / 0.37 lb.ft 0,5 N.m / 0.37 lb.ft cluding clearances and creepage distance hts electrical, thermal and energy. for use in power instalations	
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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 4x 120 mm² Not a 2x 95 mm 0,5 to 1,5 mm 0,5 to 1,5 mm - UL 5080 - UL 840 for electri - EN 6180 - EN 6020 1: General standard, standard,	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available : Not available : FNH3-800K-A : Not applicable : To define : Not applicable C - Power conversion equi - Insulation coordination in ical equipment. 00-5-1 - Safety requirement 78 - Electronic equipment 1 04-1 - Safety of machinery al requirements. Note: To h the machine manufacture	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft 0,5 N.m / 0.37 lb.ft 0,5 N.m / 0.37 lb.ft ncluding clearances and creepage distance hts electrical, thermal and energy. for use in power instalations c Electrical equipment of machines. Part have a machine in accordance with this er is responsible for installing an emergence	
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 4x 120 mm² Not a 2x 95 mm 0,5 to 1,5 mm 0,5 to 1,5 mm - UL 5080 - UL 840 for electri - EN 6180 - EN 6021 1: General standard, stop devia	75 °C (167 °F) (4x 4/0 AWG) HD applicable ² (2x 3/0 AWG) n ² (20 to 14 AWG) : Not available : Not available : FNH3-800K-A : Not applicable : To define : Not applicable C - Power conversion equi - Insulation coordination in ical equipment. 00-5-1 - Safety requiremer 78 - Electronic equipment 04-1 - Safety of machinery al requirements. Note: To f	60 N.m / 44,28 lb.ft 60 N.m / 44,28 lb.ft 10 N.m / 7.38 lb.ft 0,5 N.m / 0.37 lb.ft 0,5 N.m / 0.37 lb.ft ncluding clearances and creepage distance hts electrical, thermal and energy. for use in power instalations the Electrical equipment of machines. Part have a machine in accordance with this er is responsible for installing an emergence ng device.	

24/09/2020	The information contained are reference values. Subject to change without notice.	Page



	- 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 H).