

	Main Featu	ires			
	Reference Product code Product line		: NACI : 1199 : CFW		ΥZ
Basic data ^P ower supply nput minimum-maximum vo	ltage	: 500- : 425-			
Number of phases Input Output		: 3 : 3			
Supply voltage range		500-	690V	5	00-690V
Overload regime		Normal (ND)	Heavy (HD)	Normal (ND)	Heavy (HD)
Rated current		53A	44	46A	39A
Overload current at 60 s		58,3A	66A	50,6A	58,5A
Overload current at 3 s		79,5A	88.0	69A	78A
	hla			<u> </u>	
Maximum applica			D (112	(1001) [4]	
Voltage/Freque	ency	Normal Overland	Power (HP		
525V / 50H	7	Normal Overload 50 / 37	(עאו)		rerload (HD)
525V / 50H		50 / 37			/ 30
690V / 50H		60 / 45			/ 37
690V / 60H		60 / 45			/ 37
Dynamic braking [2]	-		onal without brakin		
RFI internal filter [3] External filter Link Inductor Memory card USB port Line frequency 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 (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 Dissipated power:	oltage e input e input er up cycles - on/off) per	: Not a : Yes : Inclu : Stan : 50/6 : 48-6 : Less : Cate : : : : : : : : : : : : : : : : : : :	2 Hz or equal to 3% of gory III % v	t	ge
Mounting type	C ND	Overload HD		Overload ND	(*) HD
Surface	878 W	740 W		911 W	783 W
Flange	191 W	171 W		196 W	177 W
Source available to the Output voltage Maximum capacity	user	: 24 V : 500	сс	-	
Control/performance da Power supply	ata		ched-mode power	supply	
Control method Encoder interface			/VW, Vector and F with 'Slot 2' acces		

Control/performance of Control output frequency	lata		
	1414	: 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		. 10/ of rotad around	
 Speed resolution Speed range 		: 1% of rated speed : 1:30	
Sensorless vector control		. 1.30	
- Speed resolution		: 0,5% of rated speed	
- Speed range		: 1:100	
Vector control with encode	r		
- 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 		: 400 kΩ	
- Impedance for current inp	out	: 500 Ω	
Function		: Programmable	
Maximum allowed voltage		: ±30 Vcc	
Digital inputs			
Digital inputs - Quantity (st	andard)	: 6	
Activation		: Active low and high	
Maximum low level		: 3 V	
Minimum high level		: 18 V	
Input current		: 11 mA : 13 5 mA	
Maximum input current Function		: 13,5 mA : Programmable	
Maximum allowed voltage		: 30 Vcc	
-			
Analog outputs	(standard)	: 2	
Analogic outputs - Quantity Levels	(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 (s	standard)	: 3 NO/NC relays	
Maximum voltage	sandard)	: 240 Vca	
Maximum current		:1A	
Maximum current		: Programmable	
Function			
Function		ő	
Function Communication	sorv: RS485-01: RS485-05: CAN/RS485-	-	
Function Communication - Modbus-RTU (with acces	sory: RS485-01; RS485-05; CAN/RS485- sory: MODBUSTCP-05)	-	
Function Communication	sory: MODBUSTCP-05)	-	
Function Communication - Modbus-RTU (with acces - Modbus/TCP (with acces	sory: MODBUSTCP-05) ory: PROFDP-05)	-	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with access - Profibus DPV1 (with accessory: - Profinet (with accessory:	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05)	-	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with access - Profibus DPV1 (with accessory: - Profinet (with accessory: - CANopen (with accessory)	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01)	01; RS232-01 or RS232-05)	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with accesss - Profibus DPV1 (with accessory: - CANopen (with accessory: - DeviceNet (with accessor)	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA	01; RS232-01 or RS232-05) AN-01)	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with accessors - Profinet (with accessory: - CANopen (with accessory - DeviceNet (with accessor - EtherNet/IP (with accessor	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2	01; RS232-01 or RS232-05) AN-01)	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with access - Profibus DPV1 (with accessory - CANopen (with accessory - DeviceNet (with accessor - EtherNet/IP (with accessor - EtherCAT (with accessor	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01)	01; RS232-01 or RS232-05) AN-01)	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with access - Profibus DPV1 (with accessory - CANopen (with accessory - DeviceNet (with accessory - EtherNet/IP (with accessory - EtherCAT (with accessory - BACnet (with accessory	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2	01; RS232-01 or RS232-05) AN-01)	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with access - Profibus DPV1 (with accessory - Profinet (with accessory - CANopen (with accessory - DeviceNet (with accessory - EtherNet/IP (with accessory - EtherCAT (with accessory - BACnet (with accessory - Protections available	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01)	01; RS232-01 or RS232-05) AN-01)	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with access - Profibus DPV1 (with accessory - CANopen (with accessory - DeviceNet (with accessory - EtherNet/IP (with accessory - EtherCAT (with accessory - BACnet (with accessory - Protections available - Output overcurrent/short	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit	01; RS232-01 or RS232-05) AN-01)	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with access - Profibus DPV1 (with accessory - CANopen (with accessory - DeviceNet (with accessory - DeviceNet (with accessory - EtherCAT (with accessory - BACnet (with accessory - BACnet (with accessory - Output overcurrent/short - Power supply phase loss	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit	01; RS232-01 or RS232-05) AN-01)	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with access - Profibus DPV1 (with accessors - Profinet (with accessors - CANopen (with accessors - DeviceNet (with accessors - EtherNet/IP (with accessors - EtherCAT (with accessors - BACnet (with accessors - BACnet (with accessors - Doutput overcurrent/short - Power supply phase loss - Under/Overvoltage in pow	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit	01; RS232-01 or RS232-05) AN-01)	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with access - Profibus DPV1 (with accessors - Profinet (with accessors - CANopen (with accessors - DeviceNet (with accessors - EtherNet/IP (with accessors - EtherCAT (with accessors - BACnet (with accessors - BACnet (with accessors - Doutput overcurrent/short - Power supply phase loss - Under/Overvoltage in pow - Overtemperature	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit	01; RS232-01 or RS232-05) AN-01)	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with access - Profibus DPV1 (with accessory: - CANopen (with accessory: - CANopen (with accessory: - DeviceNet (with accessory: - EtherNet/IP (with accessory: - EtherCAT (with accessory: - BACnet (with accessory: - Protections available - Output overcurrent/short - Power supply phase loss - Under/Overvoltage in pow - Overtemperature - Motor overload	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit wer	01; RS232-01 or RS232-05) AN-01)	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with access - Profibus DPV1 (with accessory: - CANopen (with accessory: - CANopen (with accessory: - DeviceNet (with accessory: - EtherNet/IP (with accessory: - BACnet (with accessory: - BACnet (with accessory: - Protections available - Output overcurrent/short - Power supply phase loss - Under/Overvoltage in pow - Overtemperature - Motor overload - IGBT's modules overload	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit wer	01; RS232-01 or RS232-05) AN-01)	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with access - Profibus DPV1 (with accessory: - CANopen (with accessory: - CANopen (with accessory: - DeviceNet (with accessory: - EtherNet/IP (with accessory: - BACnet (with accessory: - BACnet (with accessory: - Protections available - Output overcurrent/short - Power supply phase loss - Under/Overvoltage in pov - Overtemperature - Motor overload - IGBT's modules overload - Fault/External alarm	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit wer	01; RS232-01 or RS232-05) AN-01)	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with access - Profibus DPV1 (with accessory: - CANopen (with accessory: - CANopen (with accessory: - DeviceNet (with accessory: - EtherNet/IP (with accessory: - BACnet (with accessory: - BACnet (with accessory: - Protections available - Output overcurrent/short - Power supply phase loss - Under/Overvoltage in pow - Overtemperature - Motor overload - IGBT's modules overload - Fault/External alarm - Breaking resistor overload	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit wer	01; RS232-01 or RS232-05) AN-01)	
Function Communication - Modbus-RTU (with access - Modbus/TCP (with access - Profibus DP (with access - Profibus DPV1 (with accessory - CANopen (with accessory - DeviceNet (with accessory - DeviceNet (with accessory - EtherNet/IP (with accessory - EtherCAT (with accessory - BACnet (with accessory - Protections available - Output overcurrent/short - Power supply phase loss - Under/Overvoltage in pow - Overtemperature - Motor overload - IGBT's modules overload - Fault/External alarm - Breaking resistor overload - CPU or memory failure	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit wer	01; RS232-01 or RS232-05) AN-01)	
Function Communication Modbus-RTU (with access Modbus/TCP (with access Profibus DP (with access) Profibus DPV1 (with accessor) CANopen (with accessor) CANopen (with accessor) DeviceNet (with accessor) EtherNet/IP (with accessor) BACnet (with accessor) BACnet (with accessor) Protections available Output overcurrent/short Power supply phase loss Under/Overvoltage in pow Overtemperature Motor overload IGBT's modules overload Fault/External alarm Breaking resistor overload CPU or memory failure Output phase-ground shore	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit wer	01; RS232-01 or RS232-05) AN-01)	
Function Communication Modbus-RTU (with access Modbus/TCP (with access Profibus DP (with access) Profibus DPV1 (with accessory: CANopen (with accessory: CANopen (with accessory) DeviceNet (with accessory) EtherNet/IP (with accessory) BACnet (with accessory) Protections available Output overcurrent/short Power supply phase loss Under/Overvoltage in pow Overtemperature Motor overload IGBT's modules overload Fault/External alarm Breaking resistor overload CPU or memory failure Output phase-ground shore Operation interface (H	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit wer	01; RS232-01 or RS232-05) AN-01) P-05)	
Function Communication Modbus-RTU (with access Modbus/TCP (with access Profibus DP (with access) Profibus DPV1 (with accessor) CANopen (with accessor) CANopen (with accessor) DeviceNet (with accessor) EtherNet/IP (with accessor) BACnet (with accessor) BACnet (with accessor) Protections available Output overcurrent/short Power supply phase loss Under/Overvoltage in pow Overtemperature Motor overload IGBT's modules overload Fault/External alarm Breaking resistor overload CPU or memory failure Output phase-ground shor Operation interface (H Avaliability	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit wer	2 01; RS232-01 or RS232-05) AN-01) P-05) : Included in the product	
Function Communication Modbus-RTU (with access Modbus/TCP (with access Profibus DP (with access) Profibus DPV1 (with access) Profibus DPV1 (with accessor) CANopen (with accessor) DeviceNet (with accessor) EtherNet/IP (with accessor) EtherCAT (with accessor) Protections available Output overcurrent/short Power supply phase loss Under/Overvoltage in pov Overtemperature Motor overload IGBT's modules overload Fault/External alarm Breaking resistor overload CPU or memory failure Output phase-ground sho	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit wer	2 NN-01; RS232-01 or RS232-05) NN-01) P-05) : Included in the product : Local	
Function Communication Modbus-RTU (with access Modbus/TCP (with access Profibus DP (with access) Profibus DPV1 (with access) CANopen (with accessory) CANopen (with accessory) CANopen (with accessory) EtherNet/IP (with accessory) EtherNet/IP (with accessory) Protections available Output overcurrent/short Power supply phase loss Under/Overvoltage in pow Overtemperature Motor overload IGBT's modules overload Fault/External alarm Breaking resistor overload CPU or memory failure Output phase-ground shor Operation interface (H Avaliability Installation Number of HMI buttons	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit wer	2 01; RS232-01 or RS232-05) AN-01) P-05) : Included in the product : Local : 9	
Function Communication Modbus-RTU (with access Modbus/TCP (with access Profibus DP (with access) Profibus DPV1 (with access) CANopen (with accessory) CANopen (with accessory) DeviceNet (with accessory) EtherNet/IP (with accessory) EtherCAT (with accessory) Protections available Output overcurrent/short Power supply phase loss Under/Overvoltage in pow Overtemperature Motor overload IGBT's modules overload Fault/External alarm Breaking resistor overload CPU or memory failure Output phase-ground shor Operation interface (H Avaliability Installation Number of HMI buttons Display	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit wer	2 NN-01; RS232-01 or RS232-05) NN-01) P-05) : Included in the product : Local	
Function Communication Modbus-RTU (with access Modbus/TCP (with access Profibus DP (with access) Profibus DPV1 (with access) CANopen (with accessory) CANopen (with accessory) CANopen (with accessory) EtherNet/IP (with accessory) EtherNet/IP (with accessory) Protections available Output overcurrent/short Power supply phase loss Under/Overvoltage in pow Overtemperature Motor overload IGBT's modules overload Fault/External alarm Breaking resistor overload CPU or memory failure Output phase-ground shor Operation interface (H Avaliability Installation Number of HMI buttons	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit wer	NN-01) P-05) : Included in the product : Local : 9 : Graphic LCD	
Function Communication Modbus-RTU (with access Modbus/TCP (with access Profibus DP (with access) Profibus DPV1 (with access) CANopen (with accessory) CANopen (with accessory) DeviceNet (with accessory) EtherNet/IP (with accessory) BACnet (with accessory) Protections available Output overcurrent/short Power supply phase loss Under/Overvoltage in pow Overtemperature Motor overload IGBT's modules overload Fault/External alarm Breaking resistor overload CPU or memory failure Output phase-ground shot Operation interface (H Avaliability Installation Number of HMI buttons Display Indication accuracy	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit wer	AN-01) P-05) included in the product Local 9 Graphic LCD 5% of rated current	
Function Communication Modbus-RTU (with access Modbus/TCP (with access Profibus DP (with access) Profibus DPV1 (with access) CANopen (with accessory) CANopen (with accessory) DeviceNet (with accessory) EtherNet/IP (with accessory) BACnet (with accessory) Protections available Output overcurrent/short Power supply phase loss Under/Overvoltage in pow Overtemperature Motor overload IGBT's modules overload Fault/External alarm Breaking resistor overload CPU or memory failure Output phase-ground shot Operation interface (H Avaliability Installation Number of HMI buttons Display Indication accuracy	sory: MODBUSTCP-05) ory: PROFDP-05) essory: PROFIBUS DP-01) PROFINETIO-05) y: CAN/RS485-01 or CAN-01) ry: DEVICENET-05; CAN/RS485-01 or CA ory: ETHERNET/IP-05 or ETHERNETIP-2 y: ETHERCAT-01) RS485-01 or CAN/RS485-01) circuit wer	AN-01) P-05) included in the product Local 9 Graphic LCD 5% of rated current	Page 2/4



Variable Speed Drives				
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 in	verter	
Remote HMI frame				
		: Accessory		
Remote HMI degree of protection		: IP56		
mbient conditions				
Inclosure		: NEMA1		
Degree of pollution		: 2		
emperature				
Minimum		: -10 °C / 14 °F		
Nominal [4]		: 45 °C / 113 °F		
Current reduction factor [5]		: 2 % per °C of 45 (11	3) to 55 °C (131 °F)	
Relative humidity (non-condensing)		. _ /		
Minimum		: 5%		
Maximum		: 90%		
ltitude		. 90 /8		
Rated conditions		(1000 m (2291 ft))		
		: 1000 m (3281 ft)		
Maximum altitude allowed for operation		: 4000 m (13123 ft)		
Current Reduction factor[6]	<i>i</i> . N			
Current derating factor (for altitudes above r	,	: 1% for each 100 m a		
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		_		
Bize		: E		
leight		: 735 mm / 28.9 in		
Vidth		: 335 mm / 13.2 in		
Depth		: 358 mm / 14.1 in		
Neight		: 66 kg / 145.5 lb		
Mechanical installation				
Mounting position		: Surface or flange		
		: M8		
Fixing screw Fightening torque		: 20 N.m / 14.76 lb.ft		
Allows side-by-side assembly		: No		
Minimum spacing around the inverter		450 (5.04)		
Тор		: 150 mm / 5.91 in		
Bottom		: 250 mm / 9.84 in		
Front		: 20 mm / 0.78 in		
Side		: 80 mm / 3.15 in	: 80 mm / 3.15 in	
Electrical connections				
Cable gauges and tightening torque:				
		nended cable	Recommended tightening torque	
		75 °C (167 °F)		
Power	10,0 mm	² (6 AWG) HD	15 N.m / 11,07 lb.ft	
Braking	Not applicable		15 N.m / 11,07 lb.ft	
Grounding		m² (4 AWG)	10 N.m / 7.38 lb.ft	
Control	0,5 to 1,5 mm ² (20 to 14 AWG)		0,5 N.m / 0.37 lb.ft	
	0,0 10 1,0 1111	11 (2010 14 AWG)	0,0 10.117 0.07 10.11	
Additional especifications				
Maximum breaking current		: Not available		
Minimum resistance for the brake resistor		: Not available		
Recommended aR fuse		: FNH00-80K-A		
Recommended aR fuse		: Not applicable		
Recommended circuit breaker		: To define		
Recommended circuit breaker		: Not applicable		
Standards				
		2 D	·	
Safety		C - Power conversion equ		
			ncluding clearances and creepage distance	
		cal equipment.		
			nts electrical, thermal and energy.	
			for use in power instalations	

 EN 61800-5-1 - Safet 	y requirements electrical, thermal and energy.	

- EN 50178 - Electronic equipment for use in power instalations

- EN 50178 - Electronic equipment for use in power instalations
- EN 60204-1 - Safety of machinery. Electrical equipment of machines. Part
1: General requirements. Note: To have a machine in accordance with this
standard, the machine manufacturer is responsible for installing an emergency
stop device and supply disconnecting device.
- EN 60146 (IEC 146) - Semiconductor converters.

- EN 61800-2 - Adjustable speed electrical power drive systems - Part 2: General requirements - Rating especifications for low voltage adjustable frequency AC power drive systems.

10/02/2021



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 E).