DATASHEET
Variable Speed Drives



Voltage/Frequency Normal Overload (ND) Heavy Overload (HD) 220V / 50Hz Not applicable 1,5 / 1,1 230V / 50Hz Not applicable 2 / 1,5 230V / 50Hz Not applicable 2 / 1,5 230V / 60Hz Not applicable 2 / 1,5 230V / 60Hz Not applicable Not applicable Not applicable Not applicable Not applicable Unamic braking [3] : Standard without braking External RFI filter : CFW300-KFA T2 Link Inductor : No included in the product Use produce and overvoltage : SolHz Line frequency range (minimum - maximum) : 48-62 Hz Phase unbalance : 0,38 Displacement factor : 0,38 Rated efficiency : 2 97% Maximum connections (power up cycles - on/off) per hour : 10 (1 each 6 minutes) Dc power supply : SolHz <					
Power supply		Product code		: 13059538	0
Input phases :: 170-264 V Input phase :: 170-264 V In Canage 1 A Range 2 - In :: 3 - Out :: 3 - O			· 200-240 V		
- Out : 3 - Qui : 3 Duty cycle Range 1 Range 2 Qui cycle Heavy (HD) Not applicable Duty cycle 6 Not applicable Rated current (HD) [1] Not applicable Not applicable Single-phase input current (HD) [1] Not applicable Not applicable Single-phase input current (HD) [1] Not applicable Not applicable Voltage/Frequency Normal Overload (ND) Heavy Overload (HD) 2200 / 50Hz Not applicable 1.5 / 1.1 2300 / 60Hz Not applicable 1.5 / 1.1 2300 / 60Hz Not applicable Not applicable Not applicable Not applicable Not applicable	Input minimum-maximum v Input phases	voltage	: 170-264 V : Three-phase		
Range 1 Range 2 200:240 V Not applicable Duty cycle Heavy (HD) Rated current (HD) 6 Not applicable Not applicable Single-phase input current (HD) [1] Not applicable Three-phase (DC Input current (HD) [1] Not applicable Voltage/Frequency Normal Overload (ND) 220V / 50Hz Not applicable Voltage/Frequency Normal Overload (ND) 220V / 50Hz Not applicable 220V / 50Hz Not applicable 230V / 50Hz Not applicable Not applicable Not applicable Not applicable </td <td></td> <td></td> <td></td> <td></td> <td></td>					
Duty cycle Not applicable Not applicable 6 Not applicable Not applicable Single phase input current (HD) [1] 7,1 A Not applicable Not applicable Viblage/Frequency Normal Overload (ND) Heavy Overload (HD) 2207 / 50Hz Normal Overload (ND) Heavy Overload (HD) 2207 / 50Hz Normal Overload (ND) Heavy Overload (HD) 2207 / 50Hz Normal Overload (ND) Heavy Overload (HD) 2207 / 50Hz Nort applicable 1,5 / 1,1 2300 / 60Hz Not applicable 1,5 / 1,1 Adapplicable Not applicable Not applicable Not applicable Not applicable Not applicable			-	Pango 1	Pango 2
Duty cycle Heavy (HD) Heavy (HD) Rated current (HD) 6 Not applicable Overload current (HD) [1] 9.0 A Not applicable Intere-phase input current (HD) [1] 7.1 A Not applicable Asimum applicable motor. -7.1 A Not applicable Voltage/Frequency Normal Overload (ND) Heavy Overload (HD) 2200 / 690tz Not applicable 1.6 / 1.1 2300 / 690tz Not applicable 1.6 / 1.1 2300 / 690tz Not applicable 1.6 / 1.1 2300 / 690tz Not applicable Not applicable Not applicable Not applicable Not applicable <td></td> <td></td> <td></td> <td></td> <td></td>					
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Overload current for 60 s (HD) 9,0 A Not applicable Single-phase input current (HD) [1] Not applicable Not applicable Three-phase / DC input current (HD) [1] 7,1 A Not applicable Asimum applicable motor: 7,1 A Not applicable Voltage/Frequency Normal Overload (ND) Heavy Overload (HD) 220V / 60Hz Not applicable 1,5 / 1,1 220V / 60Hz Not applicable 2,7 / 1,5 230V / 60Hz Not applicable 1,5 / 1,1 Not applicable Not applicable 1,5 / 1,1 Not applicable Not applicable 1,5 / 1,1 Not applicable Not applicable Not applicable Not applicable					
Single-phase input current (HD) [1] Not applicable Not applicable Three-phase / DC input current (HD) [1] 7,1 A Not applicable Awinum applicable motor: 7,1 A Not applicable 2207/ 50Hz Nort applicable 1,5 / 1,1 2207/ 50Hz Not applicable 1,5 / 1,1 2207/ 50Hz Not applicable 1,5 / 1,1 2307/ 50Hz Not applicable 1,5 / 1,1 2007/ 50Hz Not applicable 1,5 / 1,1 2307/ 50Hz Not applicable 1,5 / 1,1 Not applicable Not applicable 1,5 / 1,1 Not applicable Not applicable Not applicable Use port : Standard without braking : External RFI filter : Standard without braking : Line frequency area : Not applicable Not applicable Use port : Standard without braking : </td <td></td> <td></td> <td></td> <td>-</td> <td></td>				-	
Three-phase / DC input current (HD) [1] 7,1 A Not applicable Aaximum applicable motor: Voltage/Fraquency Normal Overload (ND) Heavy Overload (HD) 220V / 50Hz Not applicable 1,5 / 1,1 220V / 50Hz Not applicable 1,5 / 1,1 220V / 50Hz Not applicable 2,1,5 230V / 50Hz Not applicable 1,5 / 1,1 Not applicable Not applicable Not applicable Varianticable Not applicable Not applicable Use port : Standard without braking : Standard without braking Link Inductor : No isstandard without braking : Standard without braking Link Inductor : No tincluded in the product : Standard without braking Link Inductor : Standard without braking : Standard without braking Line frequency ange (minimum - maxi					
Askinum applicable motor: Image: Frequency Normal Overload (ND) Heavy Overload (HD) 220V/ 50Hz Nort applicable 1,5/1,1 220V/ 50Hz Nort applicable 1,5/1,1 220V/ 50Hz Nort applicable 1,5/1,1 220V/ 50Hz Nort applicable 2,7/1,5 220V/ 50Hz Nort applicable 1,5/1,1 220V/ 50Hz Nort applicable 1,5/1,1 Nort applicable Nort applicable Nort applicable Dynamic braking [3] : Standard without braking External RFI filter : CHW300-KFA-T2 Link Inductor : No Werey card : Not included in the product USB port : Yes, by CPW300-CUSB Line frequency range (minimum - maximum) : 48 462 Hz Phase unbalance : Category III Power factor : 0,83 Displacement factor : 0,84 Corter querey fi : Sk Hz					
Voltage/Frequency Normal Overload (ND) Heavy Overload (ND) 220V / 50Hz Not applicable 1,5 / 1,1 230V / 50Hz Not applicable 2/ 1,5 230V / 60Hz Not applicable 2/ 1,5 230V / 60Hz Not applicable 2/ 1,5 230V / 60Hz Not applicable Not applicable Not applicable Not applicable Not applicable Dynamic braking [3] :: Standard without braking External RFI filter : CFW300-KFA-T2 Link Inductor : No Memory card : Yes, by CFW300-CUSB Line frequency : Softz Line frequency range (minimum - maximum) :: 48-62 Hz Prase unbalance :: Softz Transient voltage and overvoltage : Category III Power factor : 0, 93 Displacement factor : 0, 93 Displacement factor		· · · · ·		7,1 A	
220V / 50Hz Not applicable 1.5 / 1.1 220V / 60Hz Not applicable 1.5 / 1.1 230V / 50Hz Not applicable 2.7 1.5 230V / 50Hz Not applicable 1.5 / 1.1 230V / 50Hz Not applicable 1.5 / 1.1 Not applicable Not applicable Not applicable Upamic braking [3] : Standard without braking External RFI filter : CFW30-KFA-T2 Link Inductor : No Memory card : Standard without braking USB port : Yes, by CFW30-KFA-T2 Line frequency range (minimum - maximum) : 48-62 Hz Phase unbalance : 0.83 Transient voltage and overvoltage : 0.83 Displacement factor : 0.98 Rated efficiency : 2 97% Maximum connections (power up cycles - on/off) per hour : 5 KHz Selectable switching frequenc	Maximum applicable motor:				
220V/ 60Hz Not applicable 1.5 / 1.1 230V / 50Hz Not applicable 2/1.5 230V / 60Hz Not applicable 1.5 / 1.1 Not applicable Not applicable Not applicable Dynamic braking [3] :: Standard without braking External RFI filter :: CFW300-KFA-T2 Link Inductor :: No Memory card :: No tincluded in the product USB port :: Yes, by CFW300-CUSB Line frequency range (minimum - maximum) :: 48-62 Hz Phase unbalance :: Less or equal to 3% of input rated line voltage Transient voltage and overvoltage :: Category III Power factor :: 0,83 Displacement factor :: 0,83 Sultectable switching frequency [4]: :: 5 KHz Selectable switching frequency [4]: :: 5 KHz Selectable switching frequency [5]: :: 75 W Source available to the user : 20 mA Control uppt fordomate : 20 mA Source available to the user : 50 mA	Voltage/Frequ	ency	Normal Overload (ND)	Heavy	v Overload (HD)
230V / 50Hz Not applicable 2/1.5 230V / 50Hz Not applicable 1.5 / 1.1 Not applicable Not applicable Not applicable Dynamic braking [3] : Standard without braking External RF1 filter : CFW300-KFA-T2 Link Inductor : No Memory card : Not included in the product USB port : SoHz Line frequency range (minimum - maximum) : 48-62 Hz Phase unbalance : 0.33 Transient voltage and overvoltage : Category III Power factor : 0.98 Rated efficiency :: 2 97% Maximum connections (power up cycles - on/off) per hour : Not alable Displacement factor : 0.98 Selectable switching frequency :: 2 57% Suitching frequency [4]: : 5 KHz Selectable switching frequency :: 75 W Orper target : 10 Vdc Maximum capacity : 50 mA Control operformance data : 50 mA <td< td=""><td>220V / 50H</td><td>lz</td><td>Not applicable</td><td></td><td>1,5 / 1,1</td></td<>	220V / 50H	lz	Not applicable		1,5 / 1,1
230V/60Hz Not applicable 1,5 / 1,1 Not applicable Not applicable Not applicable Dynamic braking [3] : Standard without braking External RFI filter : CFW300-KFA-T2 Link Inductor : No Memory card : Not included in the product USB port : Yes, by CFW300-CUSB Line frequency range (minimum - maximum) : 48-62 Hz Phase unbalance : Category III Power factor : 0.83 Displacement factor : 0.83 Rated efficiency : 2 97% Maximum connections (power up cycles - on/off) per hour : Not available Dower supply : Standard Switching frequency [4]: : 5 KHz Selectable switching if requency : 2.5 and 15 KHz Selectable switching if requency : 2.5 ord 15 KHz Selectable switching if requency : 2.5 ord 15 KHz Source available to the user : 75 W Output voltage : 10 Vdc Maximu capacity : 50 mA </td <td>220V / 60H</td> <td>lz</td> <td>Not applicable</td> <td></td> <td>1,5 / 1,1</td>	220V / 60H	lz	Not applicable		1,5 / 1,1
Not applicable Not applicable Not applicable Dynamic braking [3] : Standard without braking External RFI litter : CFW300-KFA-T2 Link Inductor : No Memory card : No fincluded in the product USB port : Yes, by CFW300-CUSB Line frequency range (minimum - maximum) : 48-62 Hz Phase unbalance : Category III Power factor : 0,83 Displacement factor : 0,98 Rated dificiency : S tHz Selectable switching frequency [4]: : 5 tHz Selectable switching frequency : 75 W Source available to the user : 10 Vdc Output oltage : 10 Vdc Maximum capacity : 50 mA Control Infertace : Ava	230V / 50H	lz	Not applicable		2 / 1,5
Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Dynamic braking [3] : Standard without braking External RFI filter : CFW300-KFA-T2 Link Inductor : No Memory card : Not included in the product USB port : Yes, by CFW300-CUSB Line frequency range (minimum - maximum) : 48-62 Hz Phase unbalance : Category III Power factor : 0,83 Displacement factor : 0,83 Rated efficiency : S Hz Selectable switching frequency [4]: : 5 KHz Selectable switching frequency [4]: : 5 KHz Selectable switching frequency [4]: : 75 W Source available to the user : 10 Vdc Cotrol loperformance data : 20 Wdc Power supply : S Witched-mode power supply Control loperformance data : 20 Vdc Maximum capacity : 50 mA	230V / 60H	łz	Not applicable		1,5 / 1,1
Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Dynamic braking [3] : Standard without braking External RFI filter : CFW300-KFA-T2 Link Inductor : No Memory card : Not included in the product USB port : Yes, by CFW300-CUSB Line frequency range (minimum - maximum) : 48-62 Hz Phase unbalance : Category III Power factor : 0,83 Displacement factor : 0,83 Rated efficiency : S Hz Selectable switching frequency [4]: : 5 KHz Selectable switching frequency [4]: : 5 KHz Selectable switching frequency [4]: : 75 W Source available to the user : 10 Vdc Cotrol loperformance data : 20 Wdc Power supply : S Witched-mode power supply Control loperformance data : 20 Vdc Maximum capacity : 50 mA	Not applicat	ble	Not applicable	Nc	ot applicable
Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Dynamic braking [3] : Standard without braking External RFI filter : CFW300-KFA-T2 Link Inductor : Not included in the product USB port : Softa Line frequency : Softa Line frequency (minimum - maximum) : 48-62 Hz Phase unbalance : Category III Power factor : 0,83 Displacement factor : 0,98 Rated efficiency : S FkHz Switching frequency [4]: : S FkHz Selectable switching frequency [4]: : S fkHz Selectable switching frequency [4]: : S fkHz Source available to the user : 75 W Source available to the user : 10 Vdc Output voltage : 20 mA Control method : 20 mA Control method : 10 Vdc Control method : 1% of rated speed - Speed range : 1.20 VW Control					
Not applicable Not applicable Not applicable Dynamic braking [3] : Standard without braking External RFI filter : CFW300-KFA-T2 Link Inductor : No Wemory card : No included in the product USB port : Yes, by CFW300-CUSB Line frequency range (minimum - maximum) : 48-62 Hz Phase unbalance : Less or equal to 3% of input rated line voltage Transient voltage and overvoltage : Category III Power factor : 0,83 Displacement factor : 0,83 Rated efficiency : S kHz Selectable switching frequency [4]: : S kHz Selectable switching frequency [4]: : S kHz Selectable switching frequency [4]: : Tas with available COPY Function : Yes, by CFW100-CFW300-MMF Displaced power [5]: : 75 W Source available to the user : Output voltage : 10 Vdc Maximum capacity : 50 mA Control/performance data : Power supply : Switched-mode power supply : Otype of perfor					
Dynamic braking [3] : Standard without braking External RFI filter : CFW300-KFA-T2 Link Inductor : No Memory card : Not included in the product USB port : Yes, by CFW300-CUSB Line frequency : 50Hz Line frequency range (minimum - maximum) : 48-62 Hz Phase unbalance : Dess or equal to 3% of input rated line voltage Transient voltage and overvoltage : Category III Power factor : 0,38 Displacement factor : 0,98 Rated efficiency : Not allow Maximum connections (power up cycles - on/off) per hour : 10 (1 each 6 minutes) DC power supply : Not allow Swliching frequency [4]: : 5 kHz Selectable swliching frequency : 2,5 and 15 kHz Real-line clock : Not available COPY Function : Yes, by CFW300-rMMF Displacement factor : 0.04 Maximum capacity : 50 mA Control/performance data : Power supply : Swliched-mode power supply Control/performance data : 50 mA Control/performance :					
- Speed resolution : 1% of rated speed - Speed range : 1:20 VVW Control : - Speed resolution : 1% of rated speed - Speed range : 1% of rated speed - Speed range : 1:30 Sensorless vector control : Not applicable	Link Inductor Memory card USB port Line frequency Line frequency range (minimum - maximum) Phase unbalance Transient voltage and overvoltage Power factor Displacement factor Rated efficiency Maximum connections (power up cycles - on/off) per hour DC power supply Switching frequency [4]: Selectable switching frequency Real-time clock COPY Function Dissipated power [5]: Source available to the user Output voltage Maximum capacity Control/performance data Power supply Control method Encoder interface Control output frequency Frequency resolution V/F Control		 Not included Yes, by CFW. 50Hz 48-62 Hz Less or equal Category III 0,83 0,98 ≥ 97% 10 (1 each 6 Not allow 5 kHz 2,5 and 15 kH Not available Yes, by CFW 75 W 10 Vdc 50 mA Switched-mon V/f (escalar) a Available with 0-400 Hz 	300-CUSB I to 3% of input rated line minutes) Hz 100-CFW300-MMF de power supply and VVW	voltage
· · · ·	 Speed resolution Speed range VVW Control Speed resolution Speed range Sensorless vector control 		: 1:20 : 1% of rated sp : 1:30	beed	

DATASHEET Variable Speed Drives



V/F Control

- Speed range Vector control with Encoder - Speed resolution

Analog Inputs

Quantity (standard) Levels Impedance for voltage input Impedance for current input Function Maximum allowed voltage

Digital inputs

Digital inputs - Quantity (standard) Activation Maximum low level Minimum high level Input current Maximum input current Function Maximum allowed voltage

Analog outputs

Analogic outputs - Quantity (standard) Levels RL for voltage output RL for current output Function

Digital outputs

Digital outputs - Quantity (standard) Maximum voltage Maximum current Function

Communication

- Modbus-RTU (with accessory: CFW300-CRS485; CFW300-CRS322, CFW300-CUSB or CFW300-CBLT)

- Modbus/TCP (Not available)
- Profibus DP (with accessory: CFW300-CPDP)
- Profibus DPV1 (with accessory: CFW300-CPDP)
- Profinet (Not available)
- CANopen (with accessory: CFW300-CCAN)
- DeviceNet (with accessory: CFW300-CCAN)
- EtherNet/IP (Not available)
- EtherCAT (Not available)
- Bluetooth (with accessory: CFW300-CBLT)
- BACnet (Not available)

Available protection

- Output phase-phase overcurrente/Short
- Not applicable
- Under/Overvoltage in power
- Heat sink overtemperature
- Motor overload
- Not applicable
- Fault/External alarm
- Programming error
- CPU or memory failure

Operation interface (HMI)

Avaliability Installation Number of HMI buttons Display Indication accuracy Speed resolution Standard HMI degree of protection HMI battery type HMI battery life expectancy Remote HMI type Remote HMI frame Remote HMI degree of protection

Ambient conditions

Enclosure

: IP20

: Included in the product

: 10% of rated current

: Accessory CFW300-KHMIR

: Fixed HMI

: 0.1 Hz

: IP20

: Numeric LCD

: Not applicable

: Not applicable

: Not applicable : IP54

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The information contained are reference values. Subject to change without notice. Image merely illustrative.

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: Not applicable

: Not applicable

- : 1 : 0-10V, 0-20mA and 4-20mA : 100 kΩ : 500 Ω : Programmable
- : 30 Vcc

: 4 : Active low and high : 5 V (low) and 10 V (high) : 10 V (low) and 20 V (high) : 11 mA : 20 mA : Programmable : 30 Vcc

: Only with plug-in : Not applicable : Not applicable : Not applicable : Not applicable

: 1 NO/NC relay : 250 Vac : 0.5 A : Programmable

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Ambient conditions

Degree of pollution (EN50178 and UL508C or UL61800-5-1) : 2 Temperature around the inverter: of 0 °C / 32 °F to 50 °C / 122 °F. For temperatures above the specified is necessary to apply current reduction of 2 % per °C of 50 (122) o 60 °C (140 °F). Relative humidity: 5% to 95% without condensation.

Sustainability policies RoHS Conformal Coating	: Yes : 3C2
Dimensions and weigth - Size - Height - Width - Depth - Weight	: A : 157.9 mm / 6.2 in : 70 mm / 2.76 in : 148.4 mm / 5.8 in : 0.9 kg / 2 lb
Mechanical Installation Mounting position Fixing screw Tightening torque Allows side-by-side assembly Minimum spacing around the inverter: - Top - Bottom - Front - Side	: Surface or DIN rail : M4 : 2 N.m / 1.48 lb.ft : Yes, without derating : 15 mm / 0.59 in : 40 mm / 1.57 in : 30 mm / 1.18 in : Not applicable

Electrical connections

Cable gauges and tightening torques	s:
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	Recommended cable gauge	Recommended tightening torque
Power	2,5 mm² (14 AWG)	0,8 N.m / 0,6 lb.ft
Braking	Not applicable	0,8 N.m / 0,6 lb.ft
Grounding	4,0 mm² (12 AWG)	0.8 N.m / 0.6 lb.ft
Control	0,5 to 1,5 mm ² (20 to 14 AWG)	0,5 N.m / 0.37 lb.ft

Additional especifications	
SoftPLC	: Yes, incorporated
Maximum breaking current	: Not available
Minimum resistance for the brake resistor	: Not available
Recommended fuse	: FNH00-20K-A
Recommended circuit breaker [6]	: MPW40-3-U010

Standards

Standards			
Safety		 - UL 508C - Power conversion equipment. - UL 840 - Insulation coordination including clearances and creepage distances for electrical equipment. - EN 61800-5-1 - Safety requirements electrical, thermal and energy. - EN 50178 - Electronic equipment for use in power installations. - EN 60204-1-Safety of machinery. Electrical equipment of machines. Part 1: General requirements. Note: To have a machine in accordance with that standard, the manufacturer of the machine is responsible for the installation of an emergency-stop device and a network switching equipment. - EN 61800-2 - Adjustable speed electrical power drive systems - Part 2: General requirements - Rating specifications for low voltage adjustable frequency AC power drive systems. - UL 508C - Power conversion equipment. 	
Electromagnetic Compati	bility	 EN 61800-3 - Adjustable speed electrical power drive product standard including specific test methods. EN 55011 - Limits and methods of measurement of ra characteristics of industrial, scientific and medical (ISM) equipment. CISPR 11 - Industrial, scientific and medical (ISM) rac - Electromagnetic disturbance characteristics - Limits a measurement. EN 61000-4-2 - Electromagnetic compatibility (EMC) - measurement techniques - Section 2: Electrostatic disc - EN 61000-4-3 - Electromagnetic compatibility (EMC) - and measurement techniques - Section 3: Radiated, ra electromagnetic field immunity test. EN 61000-4-4 - Electromagnetic compatibility (EMC) - measurement techniques - Section 4: Electrical fast tratest. 	dio disturbance) radio-frequency lio-frequency equipment nd methods of • Part 4: Testing and harge immunity test. • Part 4: Testing dio-frequency, • Part 4: Testing and
18/02/2021		contained are reference values. Subject nout notice. Image merely illustrative.	3 / 4

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Standards

Standards	
Mechanical Construction	 - EN 61000-4-5 - Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 5: Surge immunity test. - EN 61000-4-6 - Electromagnetic compatibility (EMC)- Part 4: Testing and measurement techniques - Section 6: Immunity to conducted disturbances, induced by radio-frequency fields. - With external filter only - EN 60529 - degrees of protection provided by enclosures (IP code). - UL 50 - enclosures for electrical equipment. - IEC 60721-3-3 - classification of environmental conditions - part 3: classification of groups of environmental parameters and their severities - section 3: stationary use at weather protected locations level 3m4. - EN 60529 e UL 50

Certifications

1) Considering minimum impedance of 1%;

2) Motor power is orientative, valid for standard WEG Motors 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;

3) Braking resistor is not included;

4) For operation with a switching frequency above nominal, apply derating to the output current (refer to the user manual).

5) Surface mounting, HD overload.

6) Only for electrical circuit protection. For protection of inverters, use aR fuses indicated.

7) Only with external filter.