## Weq <br> Quick Installation Guide

CFW300 Micro Drive

## 1 SAFETY INSTRUCTIONS

This quick installation guide contanis the basic information necessary to commission the CFW300. It
has been witten to be used by qualified personnel with sutable training or technical qualification tor
 manual defined by the oloar regulations. Failure t.
death, serious iniury, andor equipment damage.
2 SAFETY WARNINGS In the manual

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| :---: | :---: |

4
DANGER!
The proced
against death, serious injuries and considerarale matereial damage.
A $\begin{aligned} & \text { ATTENTIION! } \\ & \text { Theproceaures }\end{aligned}$
(V) NOTEE $\begin{aligned} & \text { Thiormaion mentioned in this warning is isportant for the proper understanding and } \\ & \text { good ooparation of the procduct }\end{aligned}$ good operation of the produc

High voltages are present.
A Components sensitive to electrostatic discharge.
$\pm$ Mandatiory connection to the protective ground $P \mathrm{PE}$
Connection of the shield to the ground.

## 3 PRELIMINARY RECOMMENDATIONS




 | The XCOTO connector does is not USB compatible, therefore, it cannot be connected to |
| :--- |
| USB | This soonnectors serve only as interface between the CFW300 frequency inverter and

its acessoroies.


## Do not perform any withstand voltage test If necessary, contact the manufacturer.

(1) ATTEENTION!
 grounding strap.

## 1 ATTENTION:

## 4 ABOUT THE CFW300

The CFW300 freauenco inverter is a high-pertormance product which alows speed and torque contro
of three-phase induction motors. This product provides the user with the options of vector (vVW) of


## 5 terminology



## 6 RECEIVING AND STORAGE

The CFW3oo is supplied packed in a cardboard box. There is an identififation label affixed to the outside
of the package, identical to to one aftixed to the side of the inverter Verify whether:
IT The CFW

- The CWW300 identifiration label corresponds to the purchased model.

Report any damage immediately to the carrier.
 7 IDENTIFICATION LABEL


8 dimensions


## 9 INSTALLATION AND CONNECTION

## Enviro

Avoid:

- inete xposure to sunilight, rain, high humidity or sea-air.
Inflammable or corrosive gases or or liuiucs.

- Excessive vibration

Envirnment conditions permitted for the operation of the inverter:


- Air relative hunidity: $5 \%$ to tos \% noneocondensing in
- Pollution degree: 2 ( (acoording to EN50178 and UL5008), with non-
must not originate conduction through the accumulated residues. 10 electrical installation
 Iocal regulations formation in iectictical instala aulations for proper installation. Comply with applical


$\qquad$

10.1 POWER CONNECTIONS

-U. Vand wi connection for the motor



10.2 INSTALLATIONS ACCORDING TO EUROPEAN DIRECTIVE OF ELECTROMAGNETIC CFW300 inverter series, when propery instaldo, meet ine rodur



### 10.2.1 Conformal Installation

1. Shielded output cabbes (motor cables) with shild doonnected at both ends, motor and inverter, by meanse 2. Shielded con ontriol caveles, keeproping the seperataion distance from other cables according to Table 3.2 the 3. usersunding of the
${ }^{4}$. Grounded or the inverter according to instruction of the 3.24 Grounding Connections the user's manual.
2. Use shor twiring to ground the external fiter or inverter.
3. Giround the mounting plate using a flixible braid as short as possible. Flat conductors have lower 7. Use sedeeveves tor cabble conduits whenever possible.

The CFW300 is suitable for application in a circuit able to supply not more than 30.000 symetric Arms
maximum of $127 / 240 \mathrm{~V}$, when protectecte by fuses classififed as indicicated below:


A ThNGER!


 e.g.: high voltage motors, welding machines, etci.).
(1) ${ }_{T}^{N}$ The wif gauges isited in Table 3 are guiding values. Instalation conditions and the maximum 10.3 CONTROL CONNECTIONS

or the correct oo

Naximum toraue: $0.5 \mathrm{~N} . \mathrm{mm}(4.50 \mathrm{Ilfin})$ I
(power, command in $110 \mathrm{~V} / 220 \mathrm{Vac}$, etc.).
10.3.1 Emission and Immunity Levels


## Definition of Standard IEC/EM 61800-3: "Adjustable Speed Electrical Power Drives Systems" - Environments::

 buildings used for domestic purposes.
second Environment: aincludues al estabishments other than those directly connected to a low--voltage power supply net
pate
Categoporiss
Categry


NOTE!
Aprofesionalis apepsson or organization familiar with the instalation and/or commissioning
of inverteres, noncluding their EMC a appects.

### 10.3.2 Characteristics of the RFI Filter





### 10.4 ACCESSORIES

The accessories are hardware resources that can be added in the application with the CFw 300 .
 separatily, and are sent in their own package contaning the comp
instructions or thieri instalalition, operation and seting.
11 USE OF THE KEYPAD TO OPERATE THE INVERTER
 11.1 INDICATIONS OF DISPLAY

888808

| Monitoring Mode |  |  |
| :---: | :---: | :---: |
|  |  |  |
|  | 4 | Montioing |
|  |  |  |
| Level: ${ }^{\text {a }}$ ( Setting Mode |  | $\bigcirc$ |
|  |  | $\underset{\substack{\text { Seting } \\ \text { eveli }}}{\text { cen }}$ |
| - shown on the man isisply | - $\square^{\text {anc }}$ |  |
|  |  |  |
| Level ${ }^{\text {Ler }}$ The parameater value is shown on the main display. |  |  |
|  | \%. ${ }^{\text {m }}$ | Seting |

## 12 Start-up preparation

## (4) DANGER!

1. Checkif the power, grounding and contro connections are correct and firm.
2. Remove al the material
3 left behind from the instal




3. Che chme result of the e firs
80880

|  | dispar |  |  |
| :---: | :---: | :---: | :---: |
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|  |  |  |  |
|  |  |  |  |
|  | $\sim$ |  | $\cdots$ |



## 13 TECHNICAL SPECIFICATIONS

Power Date
Power supply:




14 ELECTRONICS/GENERAL DATA



## 16 MAIN PAREMETERS

$$
\begin{aligned}
& \text { (V) } \begin{array}{l}
\text { NOTE! } \\
\text { ro }=\text { read only parameter. }
\end{array}
\end{aligned}
$$



17 FAULTS AND ALARMS


