## 理

## Quick Installation Guide

## CFW500 Frequency <br> Inverter

1 SAFETY INSTRUCTIONS
This quick instalation guide contains the basicictinternation neeossary yo commisision the Crwsoo. It has been


## SAFETY WARNINGS In THIS MANUAL AND IN THE PRODUC

| $\triangle$ | DANGER! <br> The procedures recommended in this warning aim at protecting the user against death, serious injuries and considerable natial danages. |
| :---: | :---: |
| ! | ATTENTION: <br> The procedures recommended in this warning aim at preventing material damages |
| (V) | Note: <br> The information mentioned in this warning is important for the proper understanding and good operation of the product |
| 4 | High voltages present. |
| 闰 | Components sensitive to electrostatic discharges Do not touch them. |
| $\left(\frac{1}{\square}\right.$ | The comnection to the protection grounding is required (PE). |
| $\underline{ }$ | Connection of the shied to the grounding. |

## 3 PRELIMINARY RECOMMENDATIONS

$\triangle$
NaER!
 -
©
(1)
(
 -

$$
\text { o not execute any applied potential test on the inverter! } \text { If necessary, contaot WEG. }
$$


$\wedge_{\substack{\text { DANGER: } \\ \text { Crushing Ha }}}$
$\Delta$ hamanamand
$\triangle$, manem



## 4 ABOUT THE CFW500




## 5 Nomenclatura




Gidentification label


## 7 RECEIVING AND STORAGE

The cewson is suplied packed in a cardboard box.
samears the one attached to to the side of the inverter.
Cheokite




## 8 INSTALLATION AND CONNECTION

8.1 Environmental Conditions:

Avoidr

Environmental conditions sermited or the operation of the inverter




### 8.2 Positioning and Mounting












### 8.3 Cabinet Mounting



8.4 Surface Mounting
8.5 DIN-Rail Mounting
 fxxing the inverter:

## 9 ELECTRICAL INSTALLATION


The following information is merely a guide for proper installation. Comply with applicable 1 loa


9. 11 dentification of the Power Terminals and Grounding Points







## ounding Wiring, Circuit Breakers and Fuses

|  | ENTION <br> Use proper cable lugs for the power and grounding connection cables. Refer to Table 10 for recommended wiring, circuit breakers and fuses. the cables cone <br> distance of 0.25 m from the inverter and from <br> Is not recommended the use of mini circuit breakers (MDU), because of the actuation level ff the magnet. |
| :---: | :---: |
|  | ATTENTION! <br> Residual Current Device (RCD): <br> - When installing an RCD to guard against electrical shock, only devices with a trip current of <br> 300 mA should be used on the supply side of the inverter. <br> the RCD protection may be activated. Contact the RCD manufacturer for selecting the mos.) the RCD protection may be activated. Contact the RCD manufacturer for selecting the most appropriate device to be used with inverters. appropriate device to be used with inverters. |
|  |  |


 9.3.2 Inductor of the DC Link/ Reactance of the Power Supply

- In order to prevent damages to the inverter and assure the expected usefullife you must have a minimum


## $\left.=1592 \cdot \Delta v \cdot V_{0}{ }^{[\mu H}\right]$ <br>  <br> .3.3 Dynamic Braking


9.3.4 Output Connections



 attention








. 3.5 Grounding Connections


## ..6 Control Connection








5. When using the exeremal HM1, the cable that connects to the inverter must be separated from the other cabies in

9.3.7 Cable Separation Distance


## CINSTALLATIONS ACCORDING TO EUROPEAN DIRECTIVE OF ELECTROMAGNETIC



10.1 Conformal Installation




1.2 Emission and Immunity Levels

| Table 6: Enissoion andimmuntry feres |  |  |
| :---: | :---: | :---: |
| Emisson: Emc Pheromenon | Basis Standard | Lovel |
| Mans eleminaldisumare volase | \|ECOENG1800.3 | It depends on the inverter model on thelength of the motor cable. Refer to Table 7 |
|  |  |  |
|  |  |  |
| Emeotrosatioc disharage (ES0) | IEC66000-4.2 |  |
| Fastransenetbust | ECC $61000 \cdot 4.4$ |  |
| Fast transent-bust | IEC6 61000-4.4 | ${ }^{2}$ |
|  |  |  |
| Conducted rado -feouency common mode | IEC 61000-4.6 | ${ }^{\text {a }}$ |
| Surges |  |  |
|  | IEC 61000-4.5 |  |
| io.for | EEC 61000-4.3 | 80 to 1000 MHz |

(





$$
\sigma
$$









## 11 Preparation and powering up

$\Delta$
DANGER!
Always disco
Checkith the power, grounding and conet comnecions are correct and firm




## 

### 11.1 STARTUP

### 11.1.1 V Vf Control Type (P0202 = 0 )

| Seal |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| 3. |  |  |  |
| 5. |  | ${ }^{6}$ |  |
|  | $\dot{P}$ | 8 | $\text { P040 }{ }^{60}$ |
|  |  |  |  |

12 OPTIONAL KITS AND ACCESSORIES

### 12.1 RFI Filte




12.2 Accessories

The accessories are hardwarer ressurces that can be added in the application. Thus, all models can receive all the
options presented.



## 13 TECHNICAL SPECIFICATIONS

### 13.1 Power Data






## 14 CONSIDERED STANDARDS



15 LIST OF MODELS CFW500 SERIES


