

Frequency Inverter

CFW300 V1.2X

Pro37gamminal

Summary of Reviews

Contents

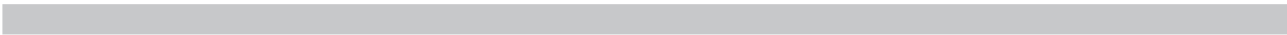
11 FUNCTIONS COMMON TO ALL THE CONTROL MODES	11-1
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Quick Reference of Parameters, Alarms and Faults

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Quick Reference of Parameters, Alarms and Faults



General Information

CV: cheval-vapeur = 736 Watts (Brazilian unit of measurement of power, normally used to indicate mechanical

3 ABOUT THE CFW300

The CFW300 frequency inverter is a high performance product which enables speed and torque control of three-phase induction motors. This product provides the user with the options of vector (VVW) or scalar (V/f) control,



About the CFW300

Digital inputs

About the CFW300

Frame size A



Frame size B



Logical Command and Speed Reference



Logical Command and Speed Reference

Logical Command and Speed Reference



Logical Command and Speed Reference

7.2.4 Reference via Electronic Potentiometer



7.3 CONTROL WORD AND INVERTER STATUS

Available Motor Control Types

9.1 PARAMETERIZATION OF THE V/f SCALAR CONTROL

P142 - Maximum Output Voltage

V/f Scalar Control

10.1 VVW VECTOR CONTROL PARAMETERIZATION

VVW Vector Control

Description:

Parameter P408 in 1 activates the self-tuning of the VVW mode, where the motor stator resistance is measured. The self-tuning can only be activated via HMI, and it can be interrupted at any time with the

Functions Common to All the Control Modes

Functions Common to All the Control Modes

P1S6.6 (3)-11 (5)8 (-)8 (M)1.5 (a)-10.6 (x)-0.6 (i)3 (m)1.6 (um)8 (O)-1.3 (ut)-8.8 (put)8.

Properties:

11.5 on page 11-6 () and (b), respectively. In order to disable the current limitation, you must set parameter $P135 > 1.9 \times I$.

Figure

P300 - DC Braking Time at Stop

Adjustable Range:	0.0 to 15.0 s	Factory Setting:	0.0 s
Properties:			

Description:

DC Braking duration at the stop. [Figure 11.8 on page 11-9](#) shows the braking behavior at the stop, where the

12 DIGITAL AND ANALOG INPUTS AND OUTPUTS

12.2 NTC SENSOR INPUT

The CFW300-IOADR accessory has an exclusive analog input to connect an NTC sensor. The temperature reading parameter is described below.



Digital and Analog Inputs and Outputs

12.5 DIGITAL INPUTS

Below is a detailed description of the parameters for the digital inputs.

[REDACTED]

[REDACTED]

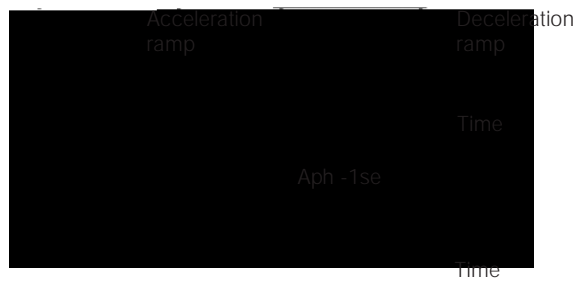
[REDACTED]

[REDACTED]

Digital and Analog Inputs and Outputs

a) RUN/STOP

It enables or disables the motor rotation through the acceleration and deceleration ramp.



Digital and Analog Inputs and Outputs

d) FORWARD/REVERSE COMMAND

This function is the combination of two DIS: one programmed for forward run and the other for reverse run.



Figure 12.8: Example of the Forward /Reverse command

This function is the combination of two DIS: one programmed for forward run and the other for reverse run.

Digital and Analog Inputs and Outputs

i)

Digital and Analog Inputs and Outputs



13 DYNAMIC BRAKING

Dynamic Braking



Faults and Alarms

Figure 14.2 on page 14-4



14.16 FAULT CONTROL

The parameters related to the control of the motor protections of operation and the inverter are in this group.



Reading Parameters

Reading Parameters

P030 - Power Module Temperature

Adjustable Range:	0.0 to 200.0 °C (32 °F to 392 °F)	Factory Setting:
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16 COMMUNICATION



