Topic: Units with additional analog input

This information describes the installation and trimming of an analog option for the control card.

Problem, reason

Insufficient accuracy of the analog option

A max. accuracy of 2 % is reached when installing or changing the option without trimming. Control card and analog option must be balanced for higher accuracy.

Required tools/material

- ► Multimeter
- ► Analog voltage source 0-10 V
- ► Operator with connection to a PC/Notebook
- ► Actual COMBIVIS
- ► Small slotted screwdriver (approx. 0.5 x 3.0 x 100)
- ► Crosstip screwdriver (PH1)

Mounting

- ► Remove the control card from the frequency inverter.
- ► Screw the distance pins to the control card.
- ► Plug-on the encoder card on the control card and fix it with screws to the distance bolts.
- ► Install control card into the frequency inverter again.

Wiring

- ► Connect variable voltage source with AN3+ and AN3-.
- ► For voltage test connect multimeter parallel to the voltage source.
- ► Make contact to the PC/Notebook.

COMBIVIS adjustments

- ► Select under configuration → Parameter text „Display Supervisor Parameter in Explorer“ and enter supervisor password.

Trimming

- ► Set control type to 0 (F5-G 400Hz) and load default values.
- ► Short-circuit AN3+ and AN3-.
- ► Enter and confirm value 12 in parameter In.20.
- ► Change the value in parameter In.21, so 0.0 % is displayed in ru.31.
- ► Remove the short-circuit between AN3+ and AN3- and enter value 13 in parameter In.20.
- ► Adjust the voltage source to 9.5 V and change parameter In.21 that ru.31 displays 95 %.
- ► Change the voltage source to -9.5 V and enter value 14 in parameter In.20.
- ► Adjust the value in In.21 by way that -95 % is displayed in ru.31.
- ► Bridge input and check 0 offset (In.20 = 12)in case of a deviating value, the trimming must be made again.

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