

ZEVA-V Frequency controller settings

V1.3 06-02-2015

To change a setting:

Make E-stop, wait until all displays are dark and reset E-stop'.

Do NOT bring the status to run mode!

For changes to the frequency controllers from the forced convection, wait until the temperatures are below 50 degrees.

Start situation display shows "rdY" or nSt.

Push turn button.

Turn button until display shows "CO nF".

Push turn button.

Turn button until display shows "FULL".

Push turn button.

Turn button until display shows the value in the "Full" column from the desired parameter.

Push turn button.

Turn button until display shows the value in the "Parameter" column from the desired parameter.

Push turn button.

Display will show the current parameter value.

Turn button until display shows the desired setting.

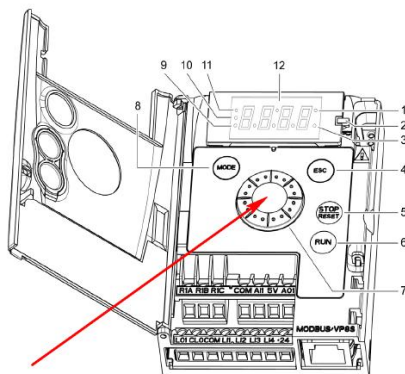
Push turn button.

The display returns to the parameter name.

To go back to the previous step press ESC.

When ready press ESC button several times until display shows "rdY" or nSt.

When done press E-stop, wait until all displays are dark and reset E-stop again.



Parameter table:

Changes from factory default settings. When there is doubt if all parameter are at factory default settings bring it to factory default with the procedure on next page.

			Bottomside forced convection fan ST2	Topside forced convection fan ST2	Solderpump multiwave SA1	Bottomside forced convection fan ST3	Topside forced convection fan ST3	Solderpump multiwave/selectwave SA2	Outfeed conveyor	Outfeed conveyor, outfeed at infeed	Solderpump multiwave/selectwave SA3
Full	Parameter	Description	V11	V12	V13	V21	V22	V23	V31	V32	V33
I_O-	r1	Relay output 1 assignment	rUn	rUn	rUn	rUn	rUn	rUn	rUn	rUn	rUn
drC-	nPr	Rated motor power	0.3	0.3	0.1	0.3	0.3	0.1	0.1	0.1	0.1
drC-	UnS	Nominal motor voltage			260			260			260
drC-	nCr	Nominal motor current	1.3	1.3	0.8	1.3	1.3	0.8	0.8	0.8	0.8
drC-	FrS	Nominal motor frequency			47			47			47
drC-	nSP	Nominal motor speed	2700	2700		2700	2700				
drC-	Ctt	Motor control type			Std			Std			Std
drC-	SFr	Drive switching frequency	16	16	10	16	16	10	16	16	10
CtL-	Fr1	Configuration reference	Ndb	Ndb	Ndb	Ndb	Ndb	Ndb	Ndb	Ndb	Ndb
Flt-	OPL	Output phase lost			nO			nO			nO
CON-	Add	Drive modbus address	3	4	9	5	6	10	7	8	11
CON-	ttO	Modbus time out	30	30	30	30	30	30	30	30	30

Remarks:

To change the OPL parameter, turn the button to the left.
 When no value is given the setting is the factory default setting.

Factory default:

To return to the factory default settings:

Start situation display shows “rdY” or nSt.
Push turn button.

Turn button until display shows “CO nF”.
Push turn button.

Turn button until display shows “FCS”.
Push turn button.

Turn button until display shows the value “InI”.
Push turn button for at least 2 seconds.

When ready press ESC button several times until display shows “rdY” or nSt.

Change history:

- V1.1 : First release.
- V1.2 : Added warning for forced convection.
- V1.3 : Nominal motor frequency for SA1 was missing.
: Motor control type from PErF to Std, the factory default. Parameters factory loop stability (StA) and frequency loop gain (FLG) are not needed and removed.
Nominal motor voltage increased from 200V to 260V
Some textual changes.