2. Connecting, adjusting and indicating elements

US 500
US 250
US 0

Connection of the mains voltage in two ranges:
US 500 ↔ US 0 = 250 VAC up to 500 VAC
US 250 ↔ US 0 = 60 VAC up to 250 VAC

By adjusting once with the two trimmers "Coarse" and "Fine", the alternator voltage is adjusted to the mains voltage.

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The "CUN1" function is released by a potential free NO contact (switching capacity 24 VDC / 20 mADC).

220V
80V
0V

Supply of the "CUN1" in two ranges:
220V ↔ 0V = 220 VAC ± 20%
80V ↔ 0V = 80 VAC ± 20%

At the 80 V connection the "CUN1" can be direct supplied from the aux. excitation voltage (see connection diagram).

Consumption is 2 VA

These are the control connections to the "COSIMAT N" voltage regulator.

Via a 4 pole screened wire the "CUN1" must be interconnected with the "COSIMAT N" voltage regulator (see connection diagram). At the same time connection "*" at the "CUN1" is used as screen potential.

This control line must not be longer than 2 m.
Coarse

Setting potentiometer for coarse adjustment of the alternator to the mains voltage.

Direction of force:
- Left stop = minimum alternator voltage
- Right stop = maximum alternator voltage

Fine

Adjusting potentiometer for fine adjustment of the alternator voltage to the mains voltage.

Direction of force:
- Left stop = minimum alternator voltage
- Right stop = maximum alternator voltage

wider / Set value

Potentiometer may be used instead of the external SIMAT N setting rheostat. Slick the coding plug on the side near this potentiometer. If an external "COSIMAT N" rheostat shall be used, delete the a/m coding plug.

Active

LED indication

The LED lights up when the "CUN1" is released.

3. Setting into operation

Basic adjustment at the "CUN1"

- Poti "Grub/Coarse" = in left stop position
- Poti "Fein/Fine" = turn 10 to 15 times to the right from left stop position
- Potentiometer "Sollwert/Set value" (mode of use see 2. connection, adjusting and monitoring device) in centre position.
- Do not release "CUN1"

Basic adjustment at the "COSIMAT N":

- External voltage setting potentiometer in mid-position
- R4 in left stop position

Setting into operation:

- Start the alternator and adjust alternator rated voltage by turning R4 (at the "COSIMAT N") to the right.
- Release "CUN1" (LED Active is alight). The alternator voltage drops.
- Adjust the alternator voltage coarse to the mains voltage by turning poti "Grub/Coarse" (at the "CUN1") to the right.
- Thereafter fine adjustment with poti "Fein/Fine" (at the "CUN1")

Note:

When using the P.F. regulator "COS" in connection with "CUN1", the alternator is rated mostly in parallel, the external "COSIMAT N" setting rheostat may be deleted. As during parallel operation the exciting current is automatically controlled by the P.F. regulator, the resistance of the external "COSIMAT N" setting rheostat must remain for functional reasons, the internal "CUN1" potentiometer "wider/ Set value" must be activated.

On of action:

- Left stop position = Minimum alternator voltage
- Right stop position = Maximum alternator voltage