

Current-Relay STW12V

Current-Detection, OR-Evaluation, 12 Inputs, adjustable

STW12V



Part number:
S225519 AC/DC 24 -240 V

Current relays in OR evaluation with 12 inputs, designed e.g. for controlling of suction plants in the timber and plastics processing industry.

Recording of current is made with current transformers type STWA 1, current-sensors S 1 (DC also) or potential-free contacts.

When there is an AC-current higher than the set response value (setting range 0.5 - 5A) through at least one of the connected transformers, the integrated relay (1 NO) picks up. If all monitored circuits are switched off or the current falls below the set response value by approx. 0.3A, the output relay releases after the set time delay (1 - 60).

Due to the adjustable response value, the user can permit lower currents without releasing switchings. Thus, for example, a machine can be switched on in order to adjust its electronic settings (low current via transformers). The STW will only switch on when the main motor has been put into operation (high current). Due to the adjustable switch off delay an easy adjustment of the follow-on is possible.

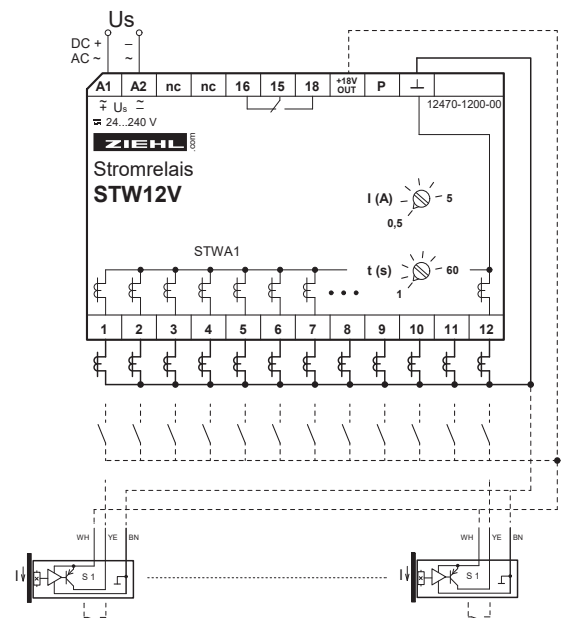
- Current monitoring of up to 12 currents
- Inputs for current transformers STWA 1, current-sensors S 1 or potential-free contacts

- Adjustable switching point 0.5 - 5 A
- Adjustable switch off delay (1 - 60 s)
- Plug-in terminals
- Universal supply-voltage AC/DC 24-240 V
- Housing for mounting in switchgear cabinets or fuse-boxes, 70 mm wide, mounting height 55 mm

Application:

ZIEHL current monitors in OR-circuits can be used particularly where dust, fumes and gases are generated by various electrical devices, and where these must be extracted by a central suction system. Due to the integrated delaytime the follow-on of the suction

2



Technical Data

Supply voltage Us

AC/DC 24 - 240 V, < 3 W, < 5 VA, 50/ 60 Hz
AC 20 - 264 V, DC 20,4 - 297 V

Relay output

1 change-over contact (co)

Type of contact

type 2 see "general technical informations"

Test conditions

see "general technical informations"

Rated amb. temperature range

-20°C...+55°C

Function

OR-evaluation

Measuring inputs

12 x for current transmitters STWA 1, current-sensors S 1 or potential-free contacts

Overload cap./continuous max 10s

100 A / 300 A

Switching point

with STWA 1 adjustable, AC 0,5 - 5 A

Tolerance

± 20%

Switch-off delay

adjustable 1- 60 s

Switch-on delay

app. 0,5 s

Dimensions (H x W x D)

design V4: 90x70x58 [mm], mounting height 55 mm

Attachment

on 35 mm DIN-rail according to EN 60 715 or

with screws M4

Protection housing/terminals

IP 30 / IP 20

Weight

app. 200 g