

Current relay STW81V

8-channel, single evaluation + OR-circuit
NEW: adjustable switching point 0,5 - 5 A

STW81V



Part number:

S225516.1 AC/DC 90-270 V

The basic function of the device is to detect whether a current is flowing in the supply line of one of several woodworking machines. If a current flow is detected, the device opens a valve on the machine's suction channel. At the same time, the extraction system is switched on. When a machine is switched off, the device closes the associated valve with a delay. If the last machine is switched off, the extraction system also stops after a delay.

The current relay STW81V is an 8-channel AC current relay, designed for controlling of suction plants e.g. in the timber and plastics processing industry.

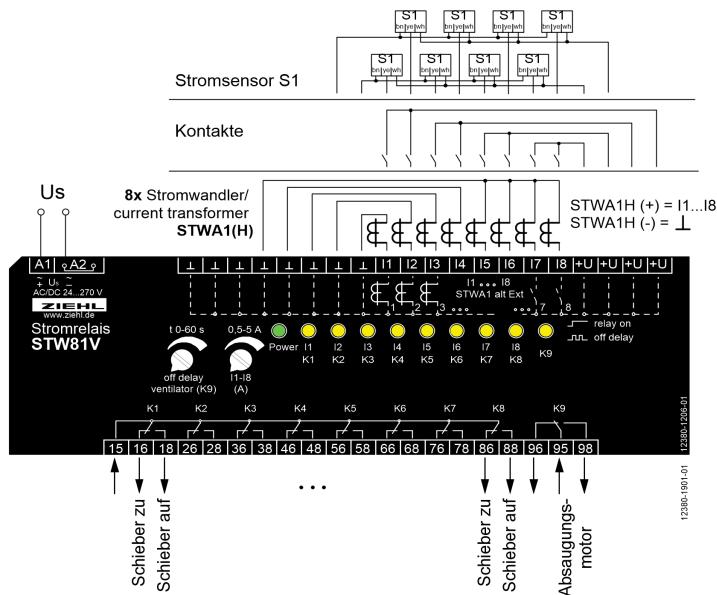
When there is an AC-current >1 A through one of up to 8 connected transformers type STWA1, the appropriate relay K1...K8 (1 x co) picks up and opens the slide valve of the machine. At the same time the relay K9 starts the central suction.

Relays K1...K8 switch off 10s after the current flow through the appropriate transformer is 0. K9 switches off 0...60s (adjustable) after the current in all transformers is 0.

Application:

The current relay STW81V is particularly suitable for the central control of slide valves in suction plants, which are to be operated dependent on operating condition of individual machines. It can control a central suction at the same time.

- single evaluation of 8 inputs with STWA1
- single evaluation of 8 inputs with current-sensor S1
- inputs for 8 potential-free contacts
- OR-evaluation of all circuits (K9)
- 9 output relays
- LED display for relays / inputs
- Switching point adjustable 0,5 ... 5 A
- switch-off delay of K9 adjustable 0 - 60 seconds
- switch-off delay single relays 10 s
last relay: K9 + 20 s
- Power consumption < 1W (in standard-operation with STWA1)



Technical Data

Rated supply voltage Us

AC/DC 24 - 270 V, 0/50/60 Hz, < 2 W, < 6 VA
DC: 20,4... 297 V, AC: 20 ... 264 V

Output relay

8 + 1 change-over contacts (co)

type 2 see "general technical informations"
see "general technical informations"

-20°C...+55°C

Transformer input

1...8 type STWA1, or STWA1H
single/OR-circuit

Overload cap. continuous max.
10 s

100 A / 300 A

Switching point on

adjustable 0,5...5 A

Switch-on delay

approx. 0,5s

Switch-off delay

10 s / 0 - 60 s

Dimensions (h x w x d)

design V 8 / 90 x 140 x 58 [mm]

on 35 mm DIN rail according to DIN EN 50 022 or
with screws M4 (option)

IP 30 / IP 20

approx. 330 g