

Current-Relay STW20K

AC-Detection, AND-Evaluation, 3 Transformers

STW20K



The current relay STW20K monitors the current in up to 3 lines with current transformers STWA1 (AND circuit). If there is a current in all 3 monitored lines, the relay (2 change-over contacts) picks up. If there is no current in at least one of the lines, the relay releases. The relay works in closed circuit current. When voltage is applied to the STW, the relay signals an alarm until the it has picked up.

Applications:

Identifies power failure with 1- or 3-phase electrical consumers, e.g. with monitoring of heating elements or heating installations where a constant heating has to be guaranteed.

A further application is the identification of phase failure, monitoring of fuses, or triggering of operating hours counters.

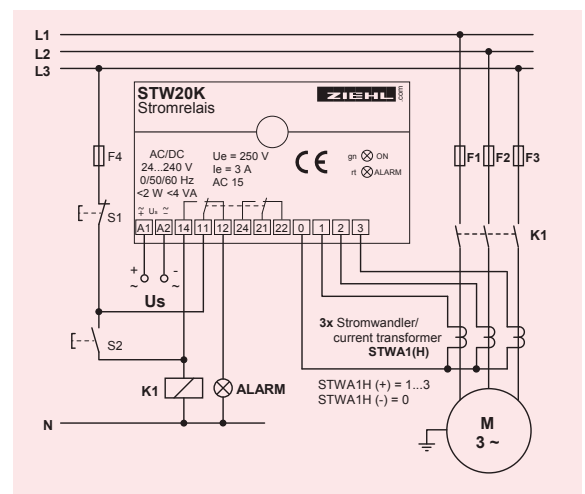
If the switching threshold is not reached due to low currents of less than 1 A, the monitored wire should be led multiple times through the transformer. Not required inputs have to be connected to a occupied input.

Features

- 3 current transformers STWA1
- AND-evaluation
- relay output 2 CO
- Switching point approx. AC 1 A
- LED-display for power on and alarm
- housing design K

Order-number

AC/DC 24 - 240 V

S225121

Technical Data

Power supply U_s

AC/DC 24 - 240 V, 0/50/60 Hz, < 1 W, < 4 VA
(DC 20 - 297 V, AC 20 - 264 V)

Output relay Type of contact

2 CO
type 2 see "general technical informations"

Function
Transformer input
Overload cap.continuous/max 10s
Switching point on
Switching point off
Tolerance
Switch-off delay
Switch-on delay

3 channel/AND
1 to 3, type STWA 1
100 A / 300 A
≤ AC 1 A
≥ AC 0,3 A
± 20%
approx. 0,3 s
approx. 0,3 ms

Testing conditions
rated ambient temperature range

see "general technical informations"
-20°C...+55°C

Dimensions H x B x T
Protection housing / terminals
Weight

design K: 75 x 22,5 x 110 [mm], 12-pol
IP 30 / IP 20
approx. 120 g