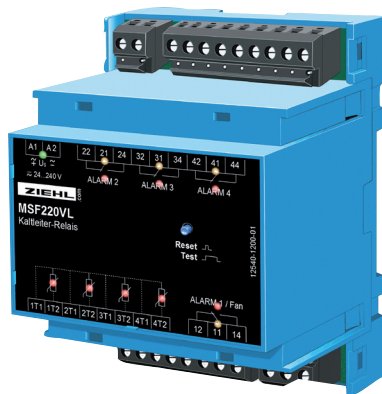


# PTC-Resistor-Relay Type MSF220VL

## for Dry-Transformers, Fan, Warning, Trip Winding and Trip Core

### MSF220VL



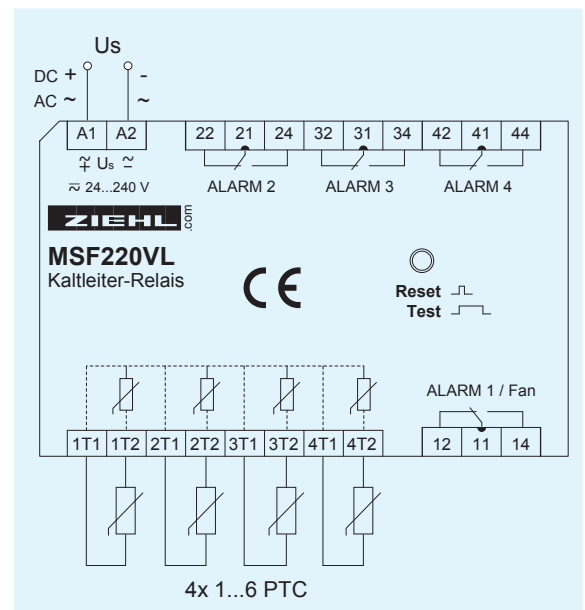
The MSF220VL is particularly suitable for monitoring of temperatures at dry transformers, when also the temperature of the core shall be measured. Monitoring of core temperature is especially required in rectifier transformers because of harmonics causing heat in the core. An intelligent control prolongs automatically the runtime of a cooling-fan, depending on the load of the transformer. Each PTC-circuit is monitored for break and short circuit. This reduces probability of false alarms. Relays in operating-current mode prevent from a trip-signal when switching on supply voltage.

The device can be adapted to different applications with 4 programs:

- 1.) Fan-control - alarm - trip (winding) - trip (core)
- 2.) Alarm - trip (winding) - trip (core) - alarm (fault)
- 3.) Fan-control - alarm - trip (winding) - alarm (fault)
- 4.) Fan-control with hysteresis T1/T2 - alarm - trip (winding) - time relay

- 4 inputs for PTC
- Intelligent control of fan
- Automatic fan-test 1x / week
- Monitoring of sensors
- Test-button
- Simple testing with disconnectable monitoring of break and short circuit (for 10 minutes)
- LEDs for alarms, states of relays and sensors
- Housing for mounting on DIN-Rail or wall-mount
- (option)
- Mounting height 55 mm
- Universal supply voltage AC/DC 24-240 V

Order-number T221674



### Technical Data

Rated supply voltage  $U_s$

AC/DC 24 - 240 V  $\pm$  15 %, < 3 VA

connectable PTC resistors

4 x 1... 6 PTC according to DIN 44 081 or 44 082

switching point

< 4000  $\Omega$

output relays

4 x 1 change-over contacts

type of contact

type 2 (see "general technical informations")

test conditions

see "general technical informations"

rated ambient temperature

-20... +55  $^{\circ}$ C

range

dimensions (h x w x d) attach-

design V 4: 90 x 70 x 58 [ mm ]

ment

on 35 mm DIN rail according to DIN EN 50 022

or with screws M4

protection housing / terminals

IP 30 / IP 20

weight

approx. 250 g