

PTC-Resistor-Relay Type MSF220VL

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

MSF220VL



CE US

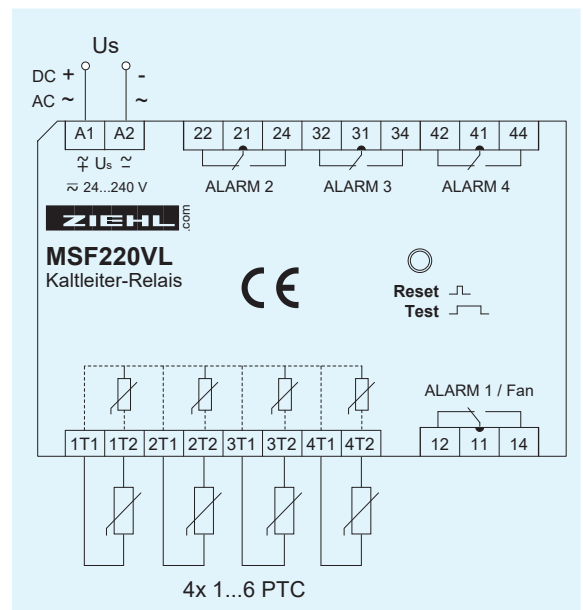
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The MSF220VL is particularly suitable for monitoring of temperatures at dry transformers, when also the temperature of the core shall be measured. Monitoring of core temperature is especially required in rectifier transformers because of harmonics 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
- electronic reclosing lock for alarms (trip) connectable
- 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



Technical Data

Rated supply voltage U_s

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

connectable PTC resistors
switching point
output relays
type of contact
test conditions
rated ambient temperature
range
dimensions (h x w x d) attach-
ment

4 x 1... 6 PTC according to DIN 44 081 or 44 082
< 4000 Ω
4 x 1 change-over contacts
type 2 see "general technical information"
see "general technical information"
-20... +60 $^{\circ}\text{C}$

protection housing / terminals
weight

design V 4: 90 x 70 x 58 [mm]
on 35 mm DIN rail according to DIN EN 50 022
or with screws M4
IP 30 / IP 20
approx. 185 g