

# PTC-Resistor-Relay Type MSF220V/VU

## for Dry-Transformers, 3 PTC-Circuits

MSF220V/  
MSF220VU



UL US

Art.-numbers:

MSF220V AC 230/240 V T221738  
MSF220VU AC/DC 24-240 V T221737

The MSF220V is particularly suitable for the temperature monitoring at dry transformers.

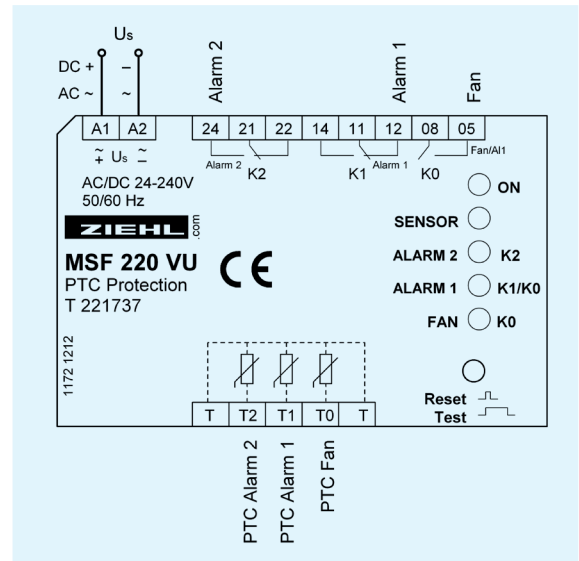
3 PTC-circuits with different nominal response temperatures (NRT) can be connected to this unit, one for controlling an fan (forced cooling) and two for alarms.

Each PTC-circuit is monitored for break and short circuit. This reduces the probability of false alarms.

- 3 PTC-circuits
- MSF220VU for universal supply voltage AC/DC 24-240 V
- intelligent control of fan (relay K0, 1 normally-open contact)
- ALARM 1 in closed-circuit current mode (relay K1, 1 change-over contact) for pre-alarm. Signals also error in any sensor and interruption of supply voltage.
- ALARM 2 in operation current mode (relay K2, 1 change-over contact). No signal when switching on and off the supply voltage.
- all output relays potentially separated from each other.
- monitoring of sensor lines
- TEST-button (stop possible before ALARM 2)
- simple testing with disconnectable monitoring of break and

short-circuit (for 10 minutes)

- LEDs for ON, sensor error, Fan, ALARM 1 and ALARM 2
- UL Recognized Component
- plug-in terminals
- housing for mounting on DIN-rail or wall-mount mounting height 55 mm



### Technical Data

Rated supply voltage  $U_s$

connectable PTC resistors  
switching point

output relays  
type of contact

test conditions

rated ambient temperature  
range

dimensions (h x w x d) attach-  
ment

protection housing / terminals  
weight

AC 220 - 240 V  $\pm 10\%$ , 50/60 Hz,  $\leq 3$  VA

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

3 x 1... 6 PTC according to DIN 44 081 or 44 082  
 $< 4000 \Omega$

2 x 1 change-over contacts, 1 normally-open contact  
type 2 see "general technical information"

see "general technical information"

-20... +55 °C

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. 320 g