

PTC-Resistor-Relay Type MSF 220 V / VU

for Dry-Transformers, 3 PTC-Circuits

MSF 220 V/
MSF 220 VU



The MSF 220 V 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.

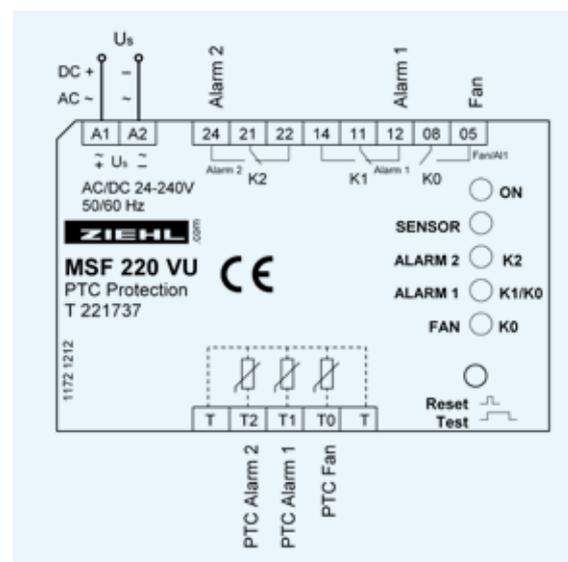
- 3 PTC-circuits
- MSF 220 VU for universal supply voltage AC/DC 24-240 V
- intelligent control of fan (relay K0, 1 normally-open contact)
- ALARM 1 in closed-circuit current mode (relay K1, 1 change-over contact) for pre-alarm. Signals also error in any sensor and interruption of supply voltage.
- ALARM 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
- plug-in terminals
- housing for mounting on DIN-rail or wall-mount
- mounting height 55 mm

Order numbers:

MSF 220 V AC 230/240 V T 221738
MSF 220 VU AC/DC 24-240 V T 221737



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) attachment

protection housing / terminals
weight

AC 220 - 240 V $\pm 10\%$, 50/60 Hz, ≤ 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 informations")
see "general technical informations"
-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