PTC-Resistor-Relay Type MS(R)220VA

Single PTC-Circuit, Atex-Approval according to Directive 2014/34/EU

MS220VA



PTC-relay for the application as a protection device against inadmissible heating up at electrical equipment in areas with explosive gases (zones 1 and 2) and areas with combustible dust (21 an 22), e.g. for direct temperature-monitoring of explosion-proof motors EEx e and EEx d.
This compact version is especially suitable for mounting in fuse-boxes or power-distribution panels.

- ATEX-approval according to directice 2014/34/EU
- SIL 1 nach IEC 61508
- PL c nach ISO 13849

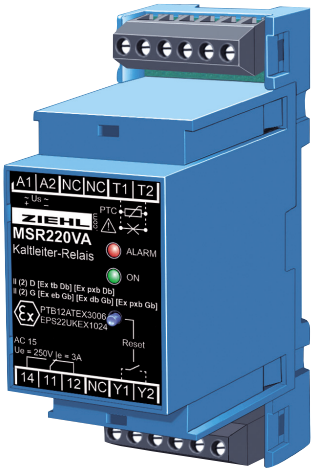
- 1 PTC-resistor (thermistor) set, each 3 or 6 PTC-sensors
- short-circuit monitoring of sensor-circuit
- output-relay with 1 change-over contact (co)
- 2 LEDs for ON and ALARM
- housing for mounting in fuse-boxes
- mounting height 55 mm, 35 mm wide
- assembly on DIN-rail or with 2 screws M4
- UL Recognized Component

  Option:
- - other suppy-voltages

II (2) D [Ex tb Db] [Ex pxb Db]
II (2) G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb]

Part number:
T222415 AC 220-240 V

MSR220VA

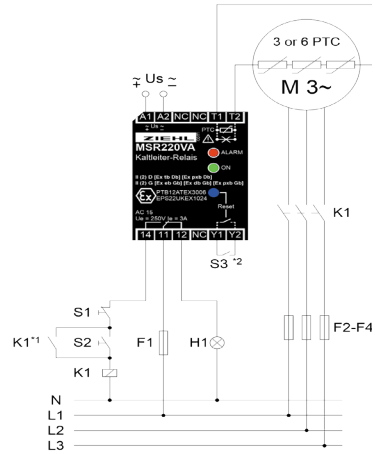


Same execution as MS220VA, additionally with electronic reclosing lock. An alarm is stored until a reset is made.

- ATEX-approval according to directive 2014/34/EU
- SIL 1 nach IEC 61508
- PL c nach ISO 13849
- electronic reclosing lock (disconnectable)
- integrated RESET-button
- link for external reset
- automatic reset at voltage recovery
- UL Recognized Component
- Option:
  - other supply-voltages

II (2) D [Ex tb Db] [Ex pxb Db]
II (2) G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb]

Part numbers:
T222435 AC 220-240 V
T222431 AC/DC 24 V



PTC = PTC termistor
Us = supply voltage
S1 = push button OFF
S2 = push button ON
S3 = remote reset
H1 = indicator lamp fault
F1 - F4 = fuses
K1 = contactor
1) external interlock
2) only MSR devices

Technical Data

Rated supply-voltage U_S	AC 220 - 240 V ± 10 % 50/60 Hz ≤ 2 VA AC/DC 24 V, AC ± 10 % DC 21- 30 V < 2 VA, without potential separation
connectable PTC-resistors	3 or 6 in series according toDIN 44081 or 44082
switching point	< 4000 Ω
output relay	1 change-over contact (co)
type of contaxt	type 2 see "general technical information"
test conditions	see "general technical information"
rated ambient temperature	-20...+55 °C
dimensions (h x w x d)	design V2: 90 x 35 x 58 [mm]
attachment	on 35 mm DIN-rail or with 2 screws M4
protection housing/terminals	IP 30 / IP 20
weight	app. 120 g