

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

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

MS220KA



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 and 22), e.g. for direct temperature-monitoring of explosion-proof motors EEx e and EEx d.

Vertically arranged terminals. Each terminal remains accessible even if all others are already occupied.

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

- 1 PTC-resistor (thermistor) set, each 3 or 6 PTC-sensors
- short-circuit monitoring of sensor-circuit
- output-relay with 1 or 2 change-over contacts (co)
- 2 LEDs for ON and ALARM
- K-housing, vertically arranged terminals housing 22.5 mm wide
- assembly on DIN-rail or with 2 screws M4 (option)
- UL Recognized Component
- Option:
 - other supply-voltages

Part numbers:

1 change-over	2 change-over	
T222445	T222455	AC 220-240 V
	T222451	AC/DC 24 V



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



MSR220KA



Same execution as MS220KA, additionally with electronic reclosing lock. An alarm is stored until a reset is made.

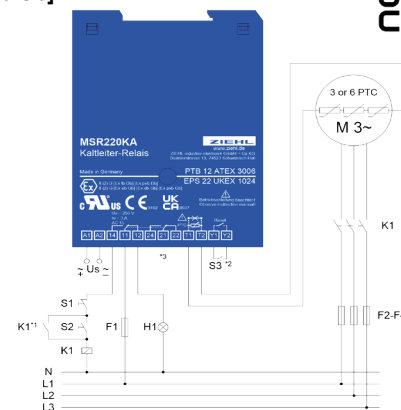
- ATEX-approval according to directive 2014/34/EU
- SIL 1 according to IEC 61508
- PL c according to ISO 13849
- electronic reclosing lock (disconnectable)
- integrated RESET-button
- link for external reset
- automatic reset at voltage recovery
- LEDs for power-on (green) and alarm (red) in reset-button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

Part numbers:

2 change-over	
T222475	AC 220-240 V
T222471	AC/DC 24 V
T222473	AC 110-120 V
(without cURus) T222476	AC 380-415 V



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



PTC = PTC thermistor
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
3) only with 2 co

Technical Data

Rated supply-voltage U_s

connectable PTC-resistors
switching point
output relay
type of contact
test conditions
rated ambient temperature
dimensions (h x w x d)
attachment
protection housing/terminals
weight

AC 220 - 240 V $\pm 10\%$ 50/60 Hz ≤ 2 VA
AC/DC 24 V, AC $\pm 10\%$ DC 21- 30 V < 2 VA, without potential separation
3 or 6 in series according to DIN 44081 or 44082
 $< 4000 \Omega$
1 or 2 change-over contacts (co)
type 2 see "general technical information"
see "general technical information"
-20...+55 °C
design K: 75 x 22,5 x 110 [mm]
on 35 mm DIN-rail or with 2 screws M4 (option)
IP 30 / IP 20
app. 150 g