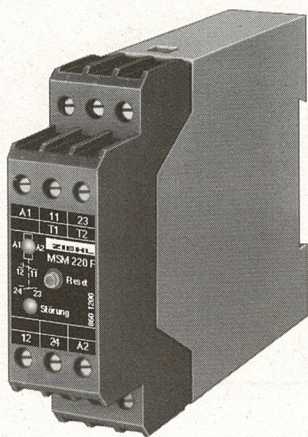


MS-type PTC-resistor trip devices

MSM 220 F



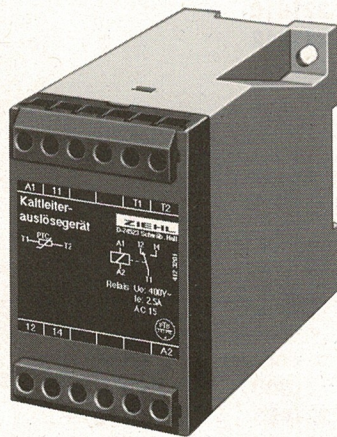
Same unit as MS 220 F, but additionally equipped with:

- electronic reclosing lock
- short-circuit monitoring on ≤ 20 ohms in sensor circuit
- mains display green LED
- error display red LED
- manual testing possible
- unit remains switched off after voltage recovery to enable trouble-shooting and also after voltage breakdown
- relay 1 NO, 1 NC potential-free
- weight approx. 200 g

Order number:

| | |
|----------------|----------|
| AC/ DC 24 V | T 221960 |
| AC 110 - 120 V | T 221963 |
| AC 220 - 240 V | T 221964 |

MS 220 Z



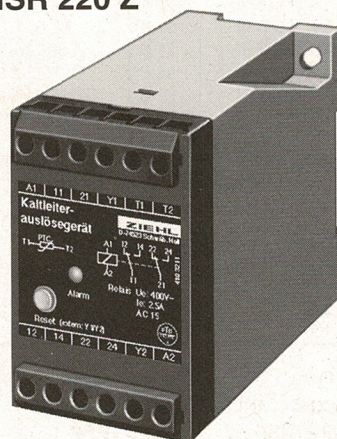
Standard trip device built into a timing relay housing, in accordance with the regulations of the automobile industry

- terminal covering IP 20
- potential floating relay 1 CO or 2 CO
- approved by PTB
- weight approx. 250 g

Order number:

| | 1 co-contact | 2 co-contact |
|----------------|--------------|--------------|
| AC 24 V | T 221321 | T 221322 |
| AC 42 V | T 221400 | T 221405 |
| AC 48 V | T 221390 | T 221395 |
| AC 115 - 120 V | T 221370 | T 221378 |
| AC 230 - 240 V | T 221304 | T 221310 |
| AC 400 V | T 221350 | T 221408 |
| AC 440 V | T 221349 | T 221410 |

MSR 220 Z



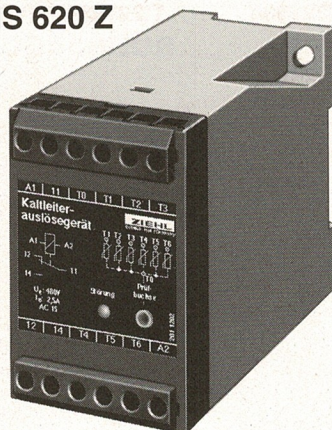
Same device as MS 220 Z, but additionally equipped with:

- electronic reclosing lock
- red LED interference display
- integrated reset key
- connection for external reset Y1, Y2
- automatic reset after voltage recovery
- potential floating relay 1 CO or 2 CO
- approved by PTB
- weight approx. 270 g

Order number:

| | 1 co-contact | 2 co-contact |
|----------------|--------------|--------------|
| AC/ DC 24 V | T 221509 | T 221609 |
| AC 42 V | T 221545 | T 221645 |
| AC 48 V | T 221510 | T 221610 |
| AC 115 - 120 V | T 221530 | T 221630 |
| AC 230 - 240 V | T 221540 | T 221640 |
| AC 400 V | T 221550 | T 221650 |
| AC 440 V | T 221555 | T 221655 |

MS 620 Z



Multiple motor protection device with 6 measuring circuits. This PTC-resistor trip device can monitor up to six measuring circuits at the same time. A common relay switches off when there is an excess temperature in one circuit. The relay switches on again after cooling down by approx. 3K.

- 6 measuring circuits, max. 36 PTC-resistors can be connected
- potential floating relay 1 CO
- weight approx. 250 g

Order number:

| | |
|----------|----------|
| AC 230 V | T 221700 |
|----------|----------|