KARL SCHUPP AG

CONDUCT – PROTECT – INSULATE



**The types CH6, SH6 are switches with connection cables, automatically resetting, with Expoxy**

**The types CRH, SRH are self-retaining with voltage. After the contact is opened, the parallel-connected ceramic resistor heats up and keeps the contact open until the voltage is removed.**

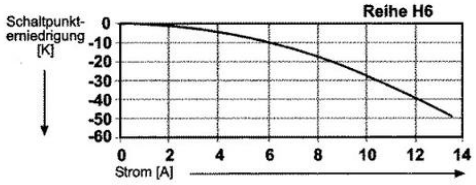
**The types SH6, SRH are fully insulated with a Mylar®-Nomex®-cap**

## Thermal Protectors 13.5 A - 42 A

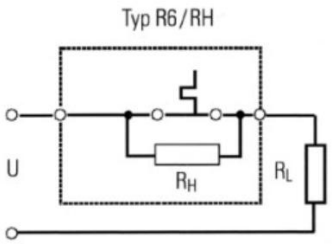
| CH6 | SH6 | CRH | SRH |
|---|---|---|---|
|  |  |  |  |

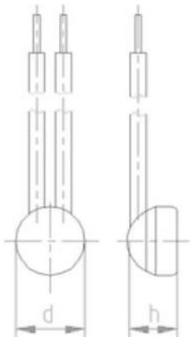
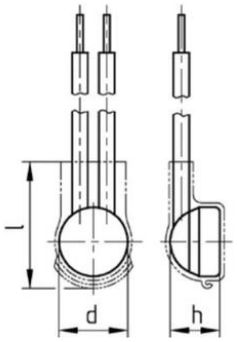
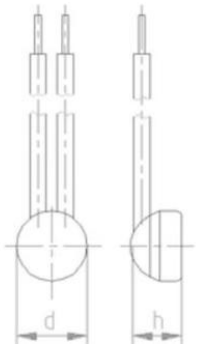
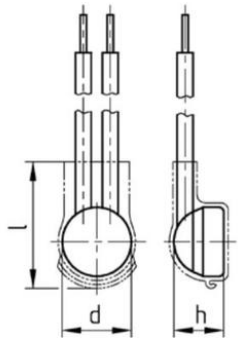
| Switching mode | NC contact CH6 resetting | NC contact SH6 resetting | NC contact CRH resetting | NC contact SRH6 resetting |
|---|---|---|---|---|
| **Insulated: Insulation cap** | No | Yes | No | Yes |
| **Temperature** | | | | |
| **Nominal switching temperature (NST) in 5 K steps °C** | 60 - 200 | | 60 - 180 | |
| **Tolerance range NST < 140 °C Tol (K)** | + 5 | | | |
| **Tolerance range NST >140 °C Tol (K)** | + 10 | | | |
| **Reverse Switch Temperature (RST below NST) UL**<br>**(defined RST possible on request) VDE** | ≥ 35<br>≥ 35 | | | |
| **Tension** | | | | |
| **max. operating voltage range up to ...** | 500 VAC / 28 V DC | | 250 VAC | |
| **Rated voltage Un 50/60 Hz** | 250 (VDE), 277 (UL) | | 120 / 230 ( VDE), 250 (UL) | |
| **Current / switching cycles** | | | | |
| **Rated current - cos ϕ = 1.0 [A] / [n]** | 13,5/ 10'000 | | 13,5 / 300 | |
| **Rated current - cos ϕ = 0.6 [A] / [n]** | 9,0 / 10'000 | | 9,0 / 300 | |
| **Rated current - cos ϕ= 1.0 [A] / [n]** | 35,0 */ 2'000 | | 42,0 / 300 | |
| **Rated voltage DC [A] / [n** | 24 | | | |
| **Max. Switching current DC [A] / [n]** | 60 / 10'000 | | | |
| **Additional specifications** | | | | |
| **High-voltage strength (kV)** | --- | 2 | --- | 2 |
| **Total bounce time (ms)** | < 1 | | | |
| **Contact resistance (according to MIL-STD R5757) (mΩ)** | < 50 | | | |
| **Vibration resistance 10 ... 60 Hz (m/s2)** | 100 | | | |
| **Compressive strength of the switch housing (N)** | 600 | | | |
| **Suitable for installation in protection class** | I | I + II | I | I + II |
| **Impregnation resistance** | | | | |
| **Available Licenses and Approvals** | | | | |
| **please specify** | IEC, VDE, UL, CQC, CMJ | | **IEC, ENEC, VDE, UL, CSA** | |
| **Dimensions (standard)** | | | | |
| **Diameter Ø d (mm)** | 9,0 | 9,4 | 9,0 | 9,4 |
| **Overall height h (mm)** | from 6.8 | from 7.2 | from 6.6 | from 7.0 |
| **Length of the insulation cap (mm)** | --- | 17,0 | --- | 17,0 |
| *** Standard connection** | Stranded wire: 1.00 mm2/AWG 18 | | | |

**Typical current dependency characteristics**




**Dependent on...**
**- Thermal coupling**
**- Application area**
**- Installation conditions**
**- External influences**
**- Cable length**
**- Cable cross-section**



| CH6 | SH6 | CRH | SRH |
| --- | --- | --- | --- |
|  |  |  |  |

**Note**

The data and information provided are based on tests and test series. They are intended as a guide, which is why there may be deviations for individual applications and uses. The suitability in a specific application must be checked by the user in each individual case.