KARL SCHUPP AG

CONDUCT – PROTECT – INSULATE



The types C01, C02, C01HT, S01, S02 and S02HT are switches with connection cables, automatically resetting with or without Expoxy

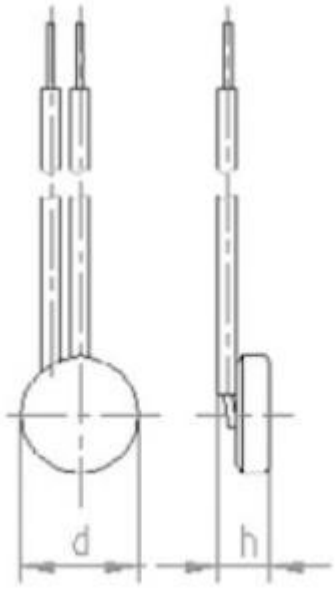
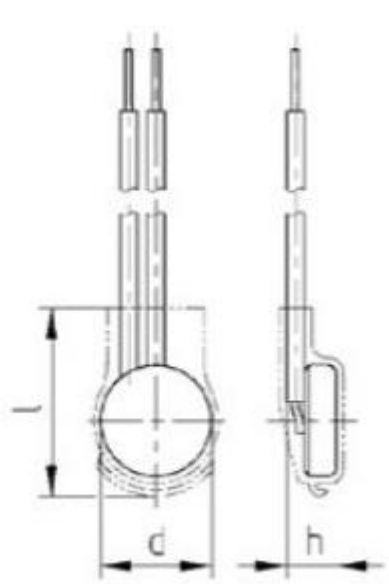
- **The type S02 is insulated with Mylar®-Nomex® cap**
- **The typeS01HT is insulated with PTFE cap**

Possible applications in switch cabinets, on motor housings or heat sinks

Thermal Protectors Type C01 / C02 / C01HT / S01 / S02 / S01HT; 1.6 - 7.5 A

C01, C02	C01HT	S01, S02	S01HT
			

Switching type:	**Opener**	**Closers**	**Opener**	**Opener**	**Closers**	**Opener**
	automatically resetting					
	C01	**C02**	**C01HT**	**S01**	**S02**	**S01HT**
Insulated: Insulation cap	no	no	no	Yes	Yes	Yes
Temperature						
Reverse Switch Temperature (NST), [°C] in 5 K steps	60 -200	70 -200	205 - 250	60 -200	70 -200	205 - 250
Tolerance range -Standard - Tol [[K]	+/- 2,5 /+/- 5	+/- 5	+/- 10	+/- 2,5 /+/- 5	+/- 5	+/- 10
Reverse Switch Temperature (RST below NST) UL [K] **Reverse Switch Temperature (RST below NST) VDE [°C]**	-35 ± 15 ≥ 35					
Tension						
max. operating voltage range up to ...	500 V AC / 14 V DC					
Rated voltage AC [VAC]	250 (VDE), 277 (UL)					
Current/switching cycles						
Rated current - cos ϕ = 1.0 [A] / [n]	2,5 / 1'000					
Rated current - cos ϕ = 0.6 [A] / [n]	1,6 / 10'000					
max. Switching current - cos ϕ = 1.0 [A] / [n]	6,3 / 3'000 7,5 / 300					
Rated current - cos ϕ = 0.4 [A] / [n]	1,8 / 10'000					
max. Switching current - cos ϕ = 0.4 [A] / [n]	7,2 / 1'000					
Rated voltage DC [V]	12					
Max. Switching current DC A] / [n]	40,0 / 1'000					
Additional specifications						
High-voltage strength [kV]	---			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]	450					
Suitable for installation in protection class	I			I + II		
Impregnation resistance	suitable					
Available Licenses and Approvals						
please specify	IEC, ENEC, VDE, UL, CSA, CQC,CMJ		IEC, ENEC, VDE, CQC (UL (appr. </= 230°C)	IEC, ENEC, VDE, UL, CSA, CQC,CMJ		IEC, ENEC, VDE, CQC, (UL(appr.</= 230°C)
Dimensions (standard)						
Diameter Ø d [mm]	9,0		9.0	9,4		9,5
Overall height h [mm]	from 3.9		from 4.4	from 4.7	from 4.3	from 4.8
Length of insulation cap l [mm]	---		---	15		20,5
Standard connection: stranded wire:	0.25 mm2/AWG 22					
Characteristics of current dependence						
The special feature of the 01 and 02 series is that they are temperature-sensitive switches. In their rated operation (rated current), they exhibit very low self-heating due to the current. Therefore, a switching point reduction takes place at most within the nominal switching temperature tolerance**.**						

C01	S01
	

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.