KARL SCHUPP AG

CONDUCT – PROTECT – INSULATE



The types C05, S05, L05 and F05 are switches with connection cables, automatically resetting with or without Expoxy

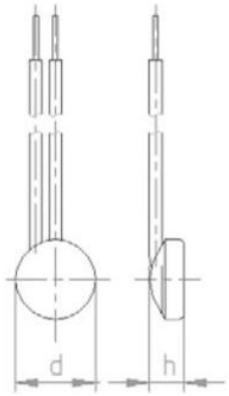
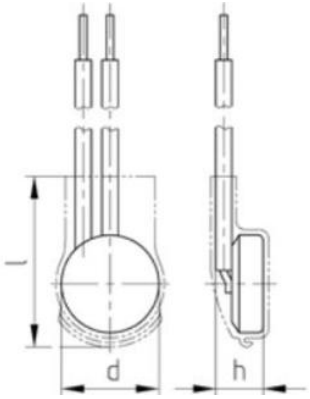
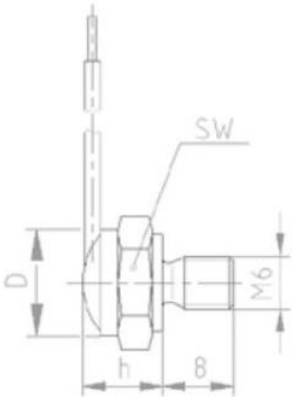
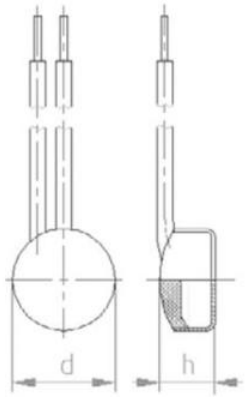
- **L05 with aluminium screw-on housing**
- **F05 with epoxy, fully insulated with Nomex® cap**

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

Thermal Protectors type C05 / S05 / L05 / F05; 4.0 - 25 A

C05	S05	L05	F05
			

Switching type	**NC contact C05 resetting**	**NC contact S05 resetting**	**NC contact L05 resetting**	**NC contact F05 resetting**
insulated: Housing	no	Yes	yes	yes
Temperature				
Nominal switching temperature (NST) [°C] in 5K steps	50 - 200			
Tolerance range -Standard Tol [[K]	± 5			
Reverse Switch Temperature (RST below NST) UL (K) 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 AC - cos ϕ = 1.0 [A] / [n]	6,3 /10'000			
Rated current - cos ϕ = 0.6 [A] / [n]	4,0 / 10'000			
max. Switching current - cos ϕ = 1.0 [A] / [n]	10,0 / 3'000 20,0 / 300			
Rated current AC - cos ϕ = 0.4 [A] / [n]	4,6 / 10'000			
max. Switching current AC- cos ϕ = 0.4 [A] / [n]	18,4 / 1'000			
Rated voltage DC [A] / [n]	12			
Max. Switching current DC [A] / [n]	40,0 / 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]	300			
Suitable for installation in protection class	I	I + II	I + II	
Impregnation resistance	suitable			
Available Licenses and Approvals				
please specify	IEC, ENEC, VDE, UL, CSA, CQC, CMJ		IEC, ENEC, VDE, UL, CSA, CQC	
Dimensions (standard)				
Diameter Ø d [mm]	11,0	11,4	12,0	11,4
Installation height (with standard connection) h [mm]	from 5.0	from 5.4	from 8.0	from 6.5
Length of insulation cap l [mm]	---	19,0	---	---
Thread (size x length) [M x mm]	---	---	M6 x 8	---
Width across flats/ max. Torque [SW/Nm]	---	---	13/8	---
Standard connection	Stranded wire: 0.5 mm2 / AWG 20			

C05	S05	L05	F05
			

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.