

The types CP1, SP1 and KP1 are with voltage self-retaining switches, not automatically resetting, with connecting cables

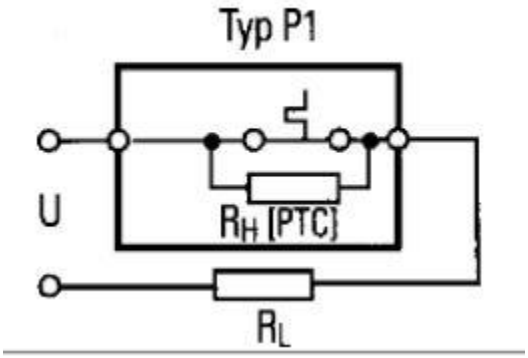
SP1, KP1 insulated with Mylar®-Nomex® cap

Thermal Protectors type CP1 / SP1 / SP1 600N / KP1; 1.6 - 7.5 A

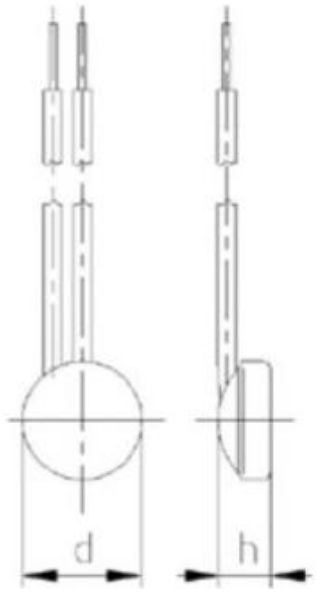
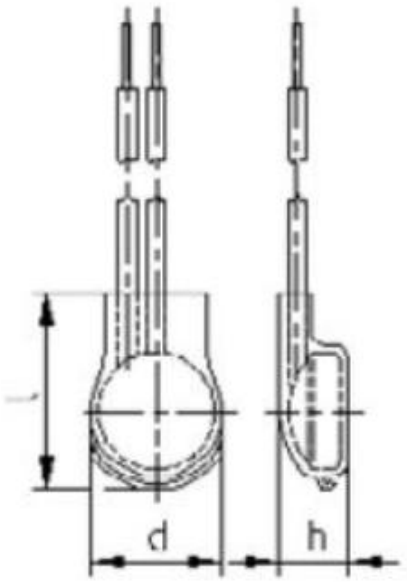
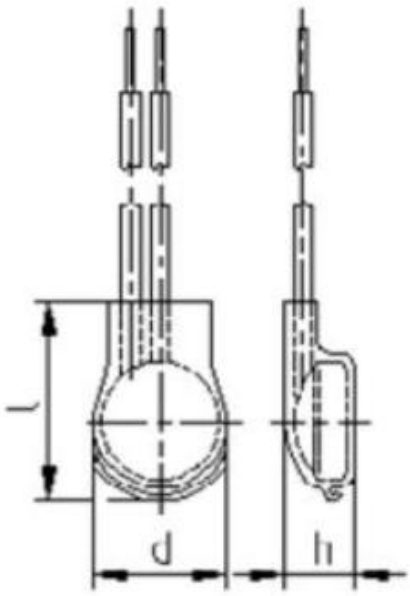
CP1	SP1, SP1-600N	KP1
		

Switching type	NC contact CP1 latching	NC contact SP1 latching		NC contact KP1 latching
	not automatically resetting			
Insulated: with insulation protection cap	no	Yes		yes
Temperature				
Nominal switching temperature (NST), in 5 K steps [°C]	60 - 180			
Tolerance Range -Standard- Tol[[K]	± 5			
Reverse Switch Temperature (RST below NST) UL [K] Reverse Switch Temperature (RST below NST) VDE [°C]	35 > 35			
Tension				
Operating voltage range from ... [VAC]	100 to 250			
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 / 1'000			
max. switching current -cos ϕ = 1.0 [A] / [n]	10,0 / 1'000			
Rated current- cos ϕ = 0.6 [A] / [n]	6,3 / 1'000			
Additional specifications				
High-voltage resistance [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]	---	600 for SP1 600N		---
Suitable for installation in protection class	I	I + II		I + II
Impregnation resistance	suitable			
Available Licenses and Approvals				
please specify	IEC, VDE, UL, CSA, CQC, SP1 600 N IEC,VDE only			
Dimensions (standard)				
	CP1	SP1	SP1 600N	KP1
Diameter Ø d [mm]	9,0	9,4	10,0	9,4
Overall height (with standard connection) h [mm]	from 4.5	from 4.9	from 6.6	from 4.9
Length of insulation cap l [mm]	---	15,0;	17,0	13,0
Standard stranded wire connection:	0.25 mm2/AWG 22			

Functional circuit diagram



When the switch is opened, the current flows through the PTC heating resistor and heats the switch so that it remains switched off until the voltage is removed.

CP1	SP1, Sp1-600N	KP1
		

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.