

# PCB-Relay SGR 02K

# Miniature – PCB-Relay 1 pole 10A

# ELESTA

## Technical Data

### Contact Data

Type of Contact	Single Contact	
No. of Contacts	1A	
Max. Switching Voltage	VDC / VAC	220 / 380
Rated Current	A	10
Rated Breaking Capacity (cos φ = 1)	VA	1500
Switching Load (Min.)	VDC / mA	5 / 100
Contact Material	AgSnO	

### General Data

Mechanical Life	> Operations	20 x 10 <sup>6</sup>
Electrical Life at Rated Voltage	> Operations	1 x 10 <sup>5</sup>
Max. Switching Frequency	Operations / h	360
Operate Time / Release Time	approx. in ms	6 / 4
Test Voltage Contact / Coil	≥ VAC <sub>eff</sub>	4000
Test Voltage Contact Open	≥ VAC <sub>eff</sub>	1000
Creeping-/Leakage Distance	mm	5,5 / 4,5
Insulation IEC 60664	- Rated Voltage (VAC)	250
	- Degree of Pollutin	3
	- Excess Voltage Category	III
Insulation Group / Rated Voltage (VDE 0110b 2/79)	C / 250	
Ambient Temperatur	°C	- 40...+ 85
Approvals	VDE**, C-UL	
Weight	gr.	5

\*\* in the pipeline

### Coil at + 20°C

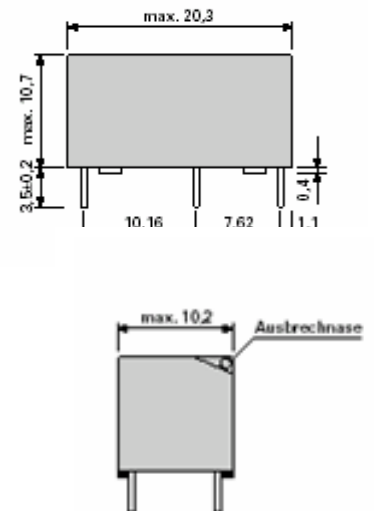
Rated Voltage	VDC	3...48
Power Consumption	approx. W	0,28
Max. Actuating Voltage	VDC	1,5 x U <sub>N</sub>

U <sub>N</sub> (V)	R (Ohm)	U <sub>AN</sub> (V)	U <sub>AB</sub> (V)
3	32 ± 10%	≤ 2,3	≥ 0,3
5	± 10%	≤ 3,9	≥ 0,5
6	128 ± 10%	≤ 4,7	≥ 0,6
9	289 ± 10%	≤ 7,0	≥ 0,9
12	480 ± 10%	≤ 9,4	≥ 1,2
18	1080 ± 10%	≤ 14,0	≥ 1,8
24	2057 ± 10%	≤ 18,7	≥ 2,4
36	4320 ± 10%	≤ 28,1	≥ 3,6
48	7680 ± 10%	≤ 37,4	≥ 4,8

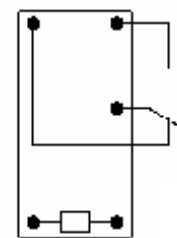
Other coil tensions on request.



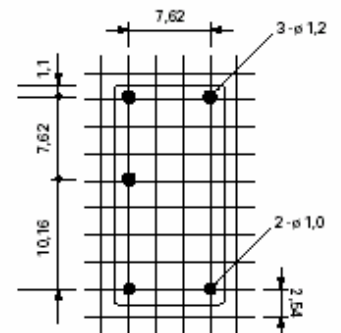
### Dimension Diagram



### Schematic Diagram

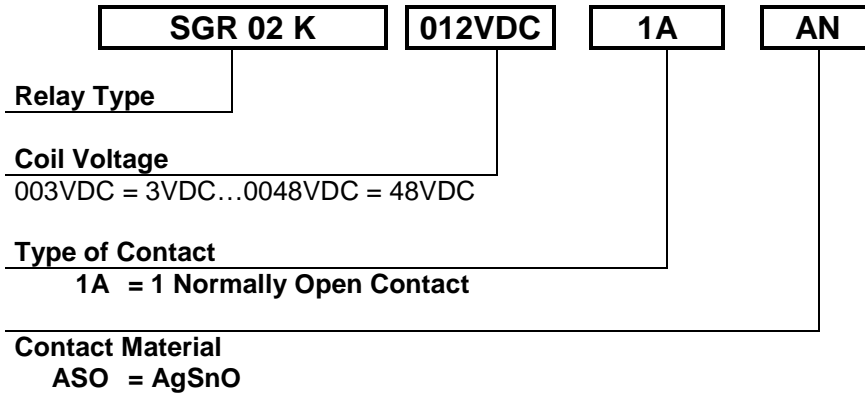


Top view



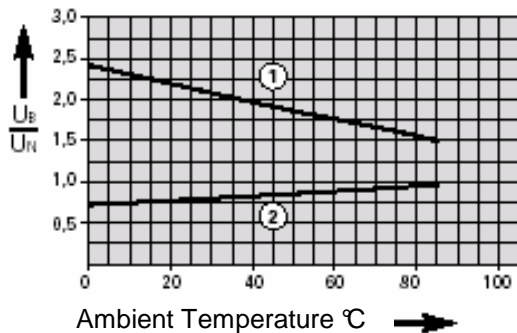
View on circuit points. All measure in mm.

Order Type



Electrical Specification

Excitation Voltage Range



- Single relay on PCB, no heat accumulation on PCB by self heating from other components.
- Continuous duty 100%

- 1) Max. excitation voltage without contact load
- 2) Min. excitation voltage (guaranteed values) without previous operation