

**PCB-Relay      Power – PCB-Relay**  
**SGR 290 GL ... 1 pole 10A      3,5 mm**

**ELESTA**

**Technical Data**

**Contact Data**

Type of Contact	Single Contact
No. of Contacts	1C / 1A
Rated Voltage / Max. Switching Voltage VAC / VDC	220 / 30
Rated Current A	10
Contact Material	AgSnO

**General Data**

Mechanical Life	> Operations	1 x 10 <sup>7</sup>
Electrical Life at Rated Voltage	> Operations	1 x 10 <sup>5</sup>
Operate Time / Release Time	approx. in ms	15 / 5
Test Voltage Contact / Coil	≥ VAC <sub>eff</sub>	5000
Test Voltage Contact Open	≥ VAC <sub>eff</sub>	1000
Ambient Temperature	°C	-40...+85
Approvals		VDE**, UL, TÜV
Weight	gr.	18

\*\* in the pipeline

**Coil at + 20°C**

Rated Voltage	VDC	5...110
Power Consumption (DC - Coil)	approx. W	0,56 (0,75)
Max. Actuating Voltage	VDC	1,1 x U <sub>N</sub>

\*110VDC Coil

**DC-Coil (0,56 W)**

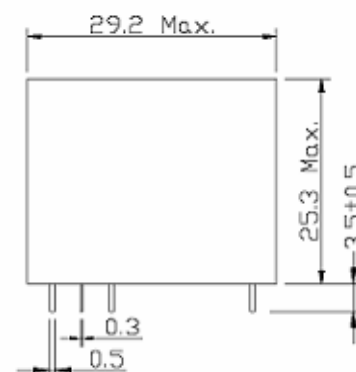
U <sub>N</sub> (V)	R (Ohm)	U <sub>AN</sub> (V)	U <sub>AB</sub> (V)	I <sub>N</sub> (mA)
5	47 ± 10%	≤ 3,75	≥ 0,5	106,0
6	68 ± 10%	≤ 4,50	≥ 0,61	88,0
12	275 ± 10%	≤ 9,00	≥ 1,2	44,0
24	1100 ± 10%	≤ 18,00	≥ 2,4	22,0
48	4170 ± 10%	≤ 36,00	≥ 4,8	11,5
60	7000 ± 10%	≤ 45,00	≥ 6,0	8,6

**DC-Coil (0,75 W)**

U <sub>N</sub> (V)	R (Ohm)	U <sub>AN</sub> (V)	U <sub>AB</sub> (V)	I <sub>N</sub> (mA)
110	16200 ± 10%	≤ 82,50	≥ 11,0	7,0

Other coil tensions on request.

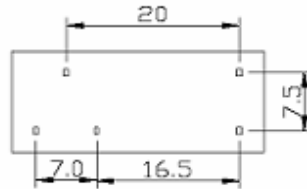
**Dimension Diagram**



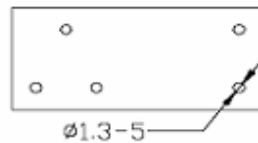
All measure in mm.

**Schematic Diagram**

1 Normally Open Contact



1 Change-Over Contact



View on circuit points. All measure in mm.

**Order Type**

	<b>SGR 290 GL</b>	<b>012VDC</b>	<b>1A</b>	<b>V</b>	<b>ASO</b>	<b>1</b>
<b>Relay Type</b>						
<b>Coil Voltage</b>	005VDC = 5VDC...110VDC = 110VDC					
<b>Type of Contact</b>	<b>1A = 1 Normally Open Contact</b> <b>1C = 1 Change-Over Contact</b>					
<b>Construction</b>	Without = Washproof IP42 <b>V = Sealed IP67</b>					
<b>Contact Material</b>	<b>ASO = AgSnO<sup>2</sup></b>					
<b>RoHS</b>	<b>1 = RoHS conform</b>					