

## SGR-PCB RELAYS 663

No. of contacts: **1 CO, 1 NO or 1 NC**  
 Rated current: **16 A**  
 Inrush current: **50 A**

### Order description

SGR 663 ...VDC  
 SGR 643 ...VDC  
 SGR 623 ...VDC

### Contact data

Contact material	AgNi
Type of contact	Single contact
Rated switching capacity	250 VAC 16A AC1 4000 VA
Max. switching voltage	400 VAC
Electrical life	approx. 50.000 operations 250 VAC 16 A
Contact resistance	< 50 mΩ

### Coil data

Nominal voltages	5-6-9-12-18-24--36-48-60-110 VDC
Pick-up voltage	approx. 0,7 x Nominal voltage (at 20 °C)
Power consumption	typically 400 mW

### Options

Contact material AgSnO<sub>2</sub> / ...+AU  
 SGR 6x3 ...VDC ASO  
 SGR 6x3 ...VDC +AU  
 Sealed IP 67  
 SGR 6x3V ...VDC ...

### General data

Mechanical life	30 x 10 <sup>6</sup> Operations
Max. switching frequency	350 Operations/h
Operate time	typically 8 ms
Release time	typically 4 ms
Bounce time	typically 2 ms
Vibration resistance	10 g (10-55 Hz)
Test voltage coil-contact	5.000 V <sub>eff</sub>
Test voltage contact open	1.000 V <sub>eff</sub>
Weight	11,5 g
Ambient temperature	-40°C - +85°C
Temperature of soldering bath	270°C / 5 s
Protection category	IP 40

### Accessories

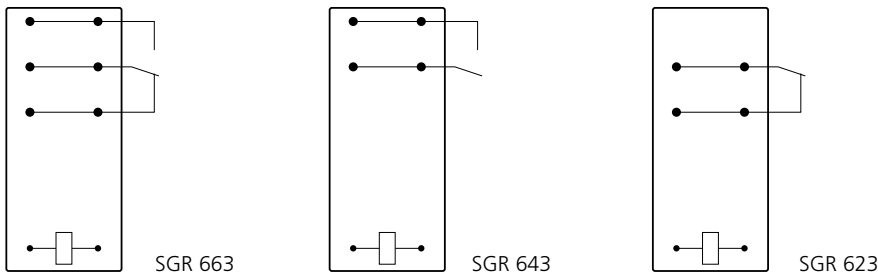
PCB mounting socket  
 ZGR 001  
 Socket with screw terminals  
 ZGE 007  
 ZGE 107  
 Modules  
 ZAE ...

### Tests, regulations

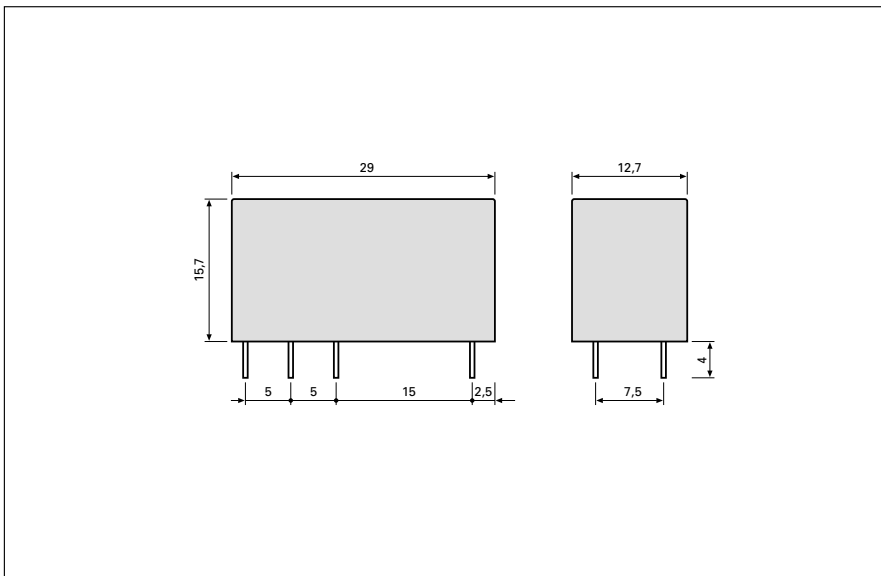
Approvals	on request
Insulation group	C/250
Creeping and leakage distance	10 mm

Diagrams

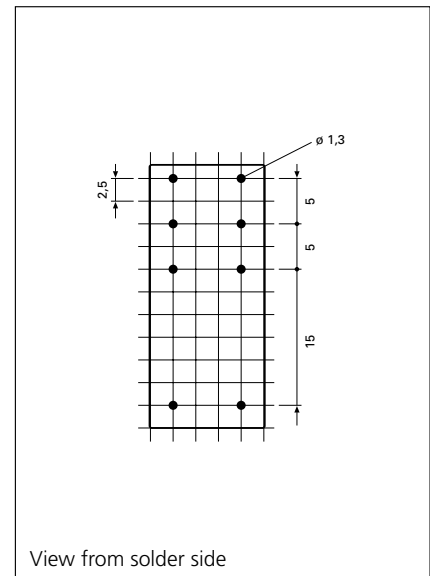
View from above



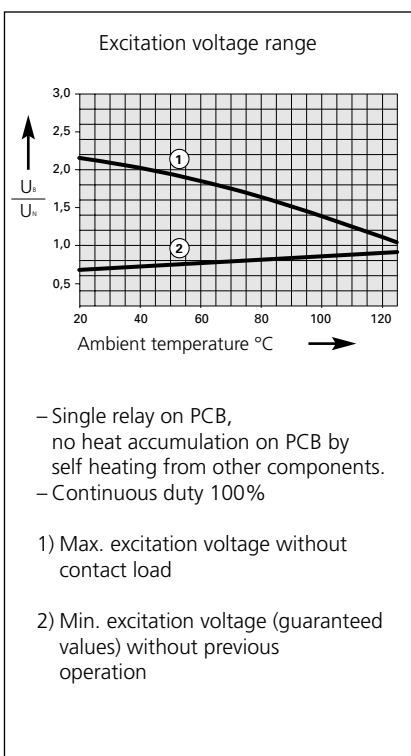
Dimensions drawing (mm)



Drilling pattern (mm)



Coil data



Standard coil for direct current (other voltages on request)

Nominal spannung VDC	Min. pick-up voltage at 20°C	Drop-out spannung at 20°C	Nominal current mA	Resistance Ohm at 20°C	Tolerance %
5	3,5	0,4	80,65	62	10
6	4,2	0,5	66,67	90	10
9	6,3	0,7	45,00	200	10
12	8,4	1,0	33,33	360	10
18	12,6	1,4	22,22	810	15
24	16,8	1,9	16,67	1.440	15
36	25,2	2,9	11,08	3.250	15
48	33,6	3,8	8,33	5.760	15
60	42,0	4,8	6,67	9.000	15
110	77,0	8,8	4,55	24.200	15