PCB-Relay
SGR 862

Power – PCB-Relay
1 pole 16A

ELESTA

Technical Data

Contact Data		
Type of Contact		Single Contact
No. of Contacts		1C
Rated Voltage / Max. Switching Voltage	VAC	250 / 440
Rated Current	A	16
Inrush Current	A	50
Rated Breaking Capacity (cos φ = 1)	VA	4000
Contact Material		AgCuNi; AgSnO; AgCdO; +Au
Contact Resistance	mΩ	50

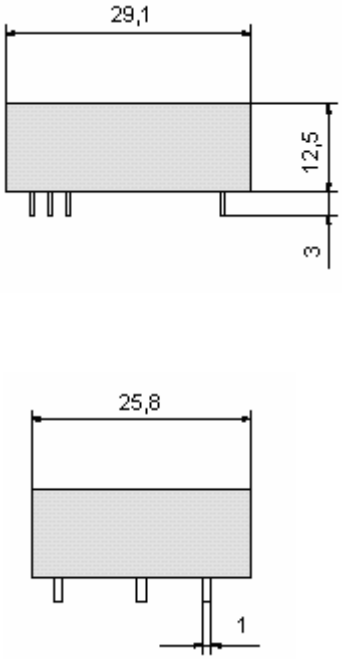
General Data		
Mechanical Life	> Operations	50×10^6
Electrical Life at Rated Voltage	> Operations	1×10^5
Max. Switching Frequency	Operations / h	360
Operate Time / Release Time	approx. in ms	8 / 3
Bounce Time A / B	approx. in ms	0,5 / 5
Test Voltage Contact / Coil	≥ VAC_{eff}	5000
Test Voltage Contact Open	≥ VAC_{eff}	1000
Vibration Resistance A / B (10-55Hz)		10g / 1,5g
Creeping-/Leakage Distance	mm	14
Insulation IEC 60664	- Rated Voltage (VAC)	250
	- Degree of Pollutin	2
	- Excess Voltage Category	III
Insulation Group / Rated Voltage (VDE 0110b 2/79)		C / 250
Ambient Temperature	°C	-40…+75/+105
Temperature of Soldering Bath / Soldering Duration	°C / s	270 / 5
Approvals		VDE; UL; CUR; ATEX
Weight	gr.	20

Coil at + 20°C		
Rated Voltage	VDC	6…110
Power Consumption (DC - Coil)	approx. W	0,5

DC-Coil (0,5 W)				
U_N (V)	R Ω (Ohm)	U_{AN} (V)	U_{AB} (V)	I_N (mA)
6	70 ± 10%	≤ 4,5	≥ 0,3	85,70
12	270 ± 10%	≤ 9,0	≥ 0,6	44,40
24	1100 ± 10%	≤ 18,0	≥ 1,2	21,80
48	4400 ± 13%	≤ 36,0	≥ 2,4	10,90
60	6850 ± 15%	≤ 45,0	≥ 3,0	8,75
110	20000 ± 15%	≤ 82,5	≥ 5,5	5,50

Other coil tensions on request.

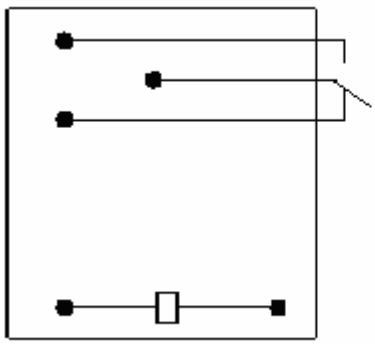
Dimension Diagram



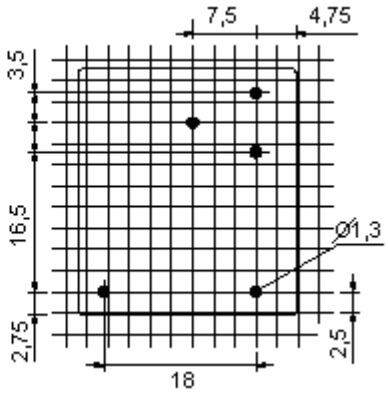
All measure in mm.

Schematic Diagram

Top View



View of the solder side. All measure in mm.



Order Type

SGR 862 | **V** | **012VDC** | **ASO**

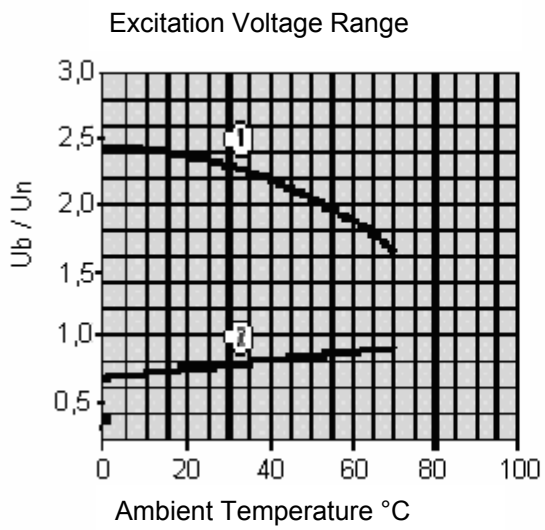
Relay Type
862 = 1 Change-Over Contact

Construction
Without = Washproof IP42
O = Dust-Proof IP54
V = Sealed IP67
T = Mechanical Actuation Button
S = Special type after customer wish

Coil Voltage
006VDC = 6VDC .... 110VDC = 110VDC

Contact Material
ACN = AgCuNi
ACO = AgCdO
ASO = AgSnO
..+AU = ...+Hard Gold Plating

Electrical Specification



- 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