

Technical Data

Contact Data	
Type of Contact	Single Contact
No. Of Contacts	1C / 1A
Rated Voltage / Max. Switching Voltage	VAC / VDC 250 / 125
Rated Current	A 40
Contact Material	AgCdO, AgSnO

General Data		
Mechanical Life	> Operations	1×10^7
Elektrische Lebensdauer	> Operations	5×10^4
Max. Switching Frequency	Operations / h	360
Operate Time / Release Time	approx.. in ms	9 / 7
Test Voltage Contact / Coil	$\geq VAC_{eff}$	2500
Test Voltage Contact Open	$\geq VAC_{eff}$	1500
Ambient Temperature	°C	-55...+100
Approvals		VDE, UL, TÜV
Weight	gr.	28

Coil at + 20°C		
Rated Voltage	VDC	5...110
Rated Voltage	VAC	12...240
Power Consumption (DC - Coil)	approx. W	0,9
Power Consumption (AC - Coil)	Approx. VA	2,0
Max. Actuating Voltage	VDC	$1,3 \times U_N$

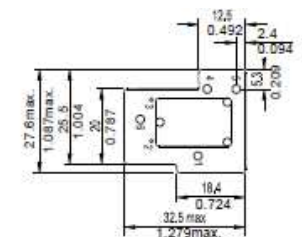
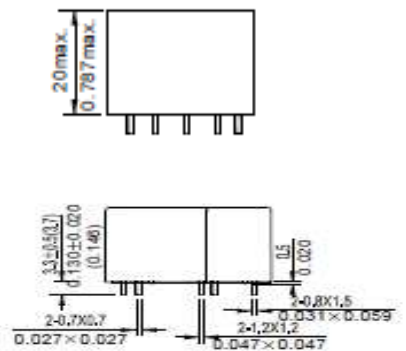
DC-Coil (0,9 W)			
U_N (V)	R (Ohm)	U_{AN} (V)	U_{AB} (V)
5	$28 \pm 10\%$	$\leq 3,75$	$\geq 0,5$
6	$40 \pm 10\%$	$\leq 4,50$	$\geq 0,6$
9	$90 \pm 10\%$	$\leq 6,75$	$\geq 0,9$
12	$160 \pm 10\%$	$\leq 9,00$	$\geq 1,2$
18	$360 \pm 10\%$	$\leq 13,50$	$\geq 1,8$
24	$640 \pm 10\%$	$\leq 18,00$	$\geq 2,4$
48	$2560 \pm 10\%$	$\leq 36,00$	$\geq 4,8$
110	$13445 \pm 10\%$	$\leq 82,50$	$\geq 11,0$

AC-Coil (2,0 VA)			
U_N (V)	R (Ohm)	U_{AN} (V)	U_{AB} (V)
12	$27 \pm 10\%$	$\leq 9,0$	$\geq 3,6$
24	$120 \pm 10\%$	$\leq 18,0$	$\geq 7,2$
110	$2360 \pm 10\%$	$\leq 82,5$	$\geq 33,0$
120	$3040 \pm 10\%$	$\leq 90,0$	$\geq 36,0$
220/240	$13490 \pm 10\%$	$\leq 165,0$	$\geq 72,0$

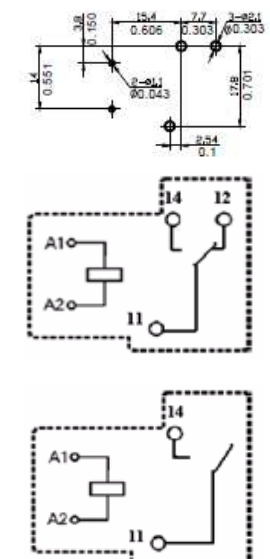
Other coil tensions on request.



Dimension Diagram



Schematic Diagram



View on circuit points. All measure in mm.

Order Type

	SGR 020 F	012VDC	1A	BBHH	ASO
Relay Type					
Coil Voltage					
	005VDC = 5VDC...110VDC = 110VDC 012VAC = 12VAC...240VAC = 240VAC				
Type of Contact					
	1A = 1 Normally Open Contact 1C = 1 Change-Over Contact				
Construction					
	V = Sealed BB = Washproof HH = High Current Model 40A K = High Temperature Model +155C M = Mid Pin (only with DC coils possible) S = Special Construction				
Contact Material					
	ACO = AgCdO ASO = AgSnO				

Electrical Specification

