



- Miniature - only 23 x 16.2 x 10.2mm
- 16A @ 250VAC, SPST-NO
- Low power 200mW Coil
- Cost effective



### Contacts

Contact arrangement	SPST-NO (1 Form A)
Contact material	AgSnO <sub>2</sub>
Max. switching voltage	AC 250V
Rated load	16A 250VAC; 15A 125VAC; TV-5 125VAC
Max. continuous current	16A
Max. switching current	16A
Max. switching power	4000VA
Initial resistance	<50mΩ max. at 0.1A/6VDC

### Coil

Rated voltage	3...48V
Must release voltage	≥ 0.1U <sub>n</sub>
Operating range	See table 1
Rated power consumption	DC 200mW

### Insulation

Insulation resistance	1000MΩ at 500VDC, 50%RH
Surge resistance	coil to contact 10,000V 1.2 X 50μs
UL Insulation system	Class F (standard)
Dielectric strength	coil to contact 2200Vrms, 1min (50/60Hz)
	between open contacts 1000Vrms, 1min

### General Data

Operating time	max.	10ms
Release time	max.	5ms
Electrical life (at rated load)	ops.	1 x 10 <sup>5</sup> (30 ops. per min. max.)
Mechanical life (no load)	ops.	1 x 10 <sup>7</sup> (300 ops. per min. max.)

### Environmental

Ambient temperature	operating	-40 to +85°C
	storage	-40 to +85°C
Shock resistance	functional	98.1m/s <sup>2</sup> min.
	destructive	981m/s <sup>2</sup> min.
Vibration resistance		DA 1.5mm 10-55Hz
Dimensions	L x W x H	23 x 16.2 x 10.2mm
Weight	approx.	10g

### Ordering Code

D G 3 9 - 7 0 2 1 - 3 5 - 1 0 1 2

Series

Coil code:

See table 1

Contact material

70: AgSnO<sub>2</sub>

Contact arrangement

21: SPST-NO

Environmental protection

3: In cover, sealed - IP67

Mounting & terminations

5: For PCB

Coil Data (approx. 200W)

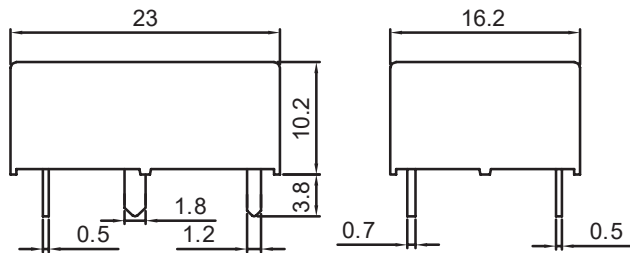
Table 1

Coil code	Nominal voltage (VDC)	Coil resistance $\Omega$ $\pm 10\%$	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Max. allowable voltage (VDC)
1003	3	45	2.25	0.30	3.9
1005	5	125	3.75	0.50	6.5
1006	6	180	4.50	0.60	7.8
1009	9	405	6.75	0.90	11.7
1012	12	720	9.00	1.20	15.6
1024	24	2280	18.00	2.40	31.2
1048	48	9200	36.00	4.80	62.4

UL Class F Coil insulation standard.

Dimensions mm

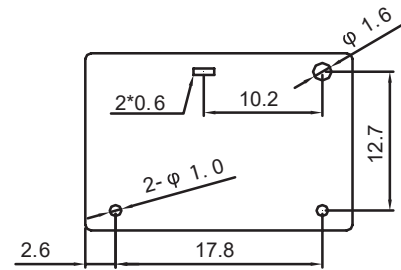
Fig. 1



Tolerances:  
 <1mm  $\pm 0.2$ mm  
 1-5mm  $\pm 0.3$ mm  
 >5mm  $\pm 0.4$ mm

PCB Mounting Dimensions mm

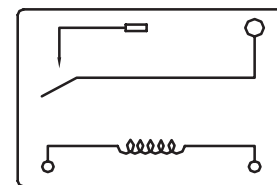
Fig. 2



Bottom view

Wiring Diagrams (bottom view)

Fig. 3



Notes:

- 1: All parameters, unless otherwise specified, are measured at ambient temperature of 23°C.
- 2: Maximum make current refers to inrush current of motor load.
- 3: Electrical life is strongly dependent of switching frequency, On/Off ratio and environmental conditions.