



- Miniature - only 20 x 10 x 15.2mm
- High switching capacity 150W, 1250VA
- High sensitivity 200mW coils

RoHS

Contacts

Contact arrangement	SPST-NO (1 Form A); SPDT (1 Form C)
Contact material	AgSnO ₂
Rated load (resistive - cos φ=1)	AC1 SPST-NO: 5A / 250VAC, 10A / 125VAC
	AC1 SPDT (NO): 5A / 250VAC, 10A / 125VAC
	AC1 SPDT (NC): 5A / 250VAC
	DC1 SPST-NO & SPDT: 5A / 30VDC
Motor load	1/4HP 277VAC
Lamp load	TV-5
Max. switching voltage	277VAC, 30VDC
Max. switching power	AC/DC 1250VA / 150W
Min. breaking capacity	AC1 1W SPST-NO
Initial resistance	≤50mΩ max. at 1A/6VDC

Coil

Rated voltage	DC 3...24V
Must release voltage	≥ 0.05U ⁿ
Operating range of supply voltage	See tables 1 & 2
Rated power consumption	DC See tables 1 & 2. 200mW & 450mW

Insulation

Insulation resistance	≥1000MΩ at 500VDC, 50%RH
Creepage & Clearance	Creepage ≥8mm. Clearance ≥5mm
Dielectric strength	coil to contact 4000Vrms, 1min (50/60Hz)
	contact to contact 1000Vrms, 1min (50/60Hz)

General Data

Operating time	typ. ≤8ms
Release time	typ. ≤5ms
Electrical life (at rated resistive load)	ops. 1 x 10 ⁵
Mechanical life (no load)	ops. 1 x 10 ⁷

Environmental

Ambient temperature	operating	-40 to +85°C
	storage	-40 to +85°C
Shock resistance		98m/s ² , 11ms
Vibration resistance		DA 1.5mm 10-55Hz
Dimensions	L x W x H	20 x 10 x 15.2mm
Weight	approx.	≤7g

Ordering Code

D M 0 5 - 3 0 2 1 - 3 5 - 1 0 1 2

Series

Contact material

30: AgSnO₂

Contact arrangement

11: SPDT (1C/O)**

21: SPST-NO (1 N/O)

** 450mW Coil only

Environmental protection

3: In cover, sealed - IP67

Mounting & terminations

5: For PCB

Coil code:

See tables

1 & 2

* Not all coil voltages and not all part numbers are UL approved. Consult factory if required.

Coil Data (at 20°C) 450mW Coil (SPST-NO / SPDT) Table 1

Coil code	Nominal voltage (VDC)	Coil resistance Ω $\pm 10\%$	Power consumption (mW)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Max. allowable voltage (VDC)
1003*	3	20	450	2.25	0.15	3.3
1005	5	56	450	3.75	0.25	5.5
1006	6	80	450	4.50	0.30	6.6
1009	9	180	450	6.75	0.45	9.9
1012	12	320	450	9.00	0.60	13.2
1024	24	1280	450	18.00	1.20	26.4

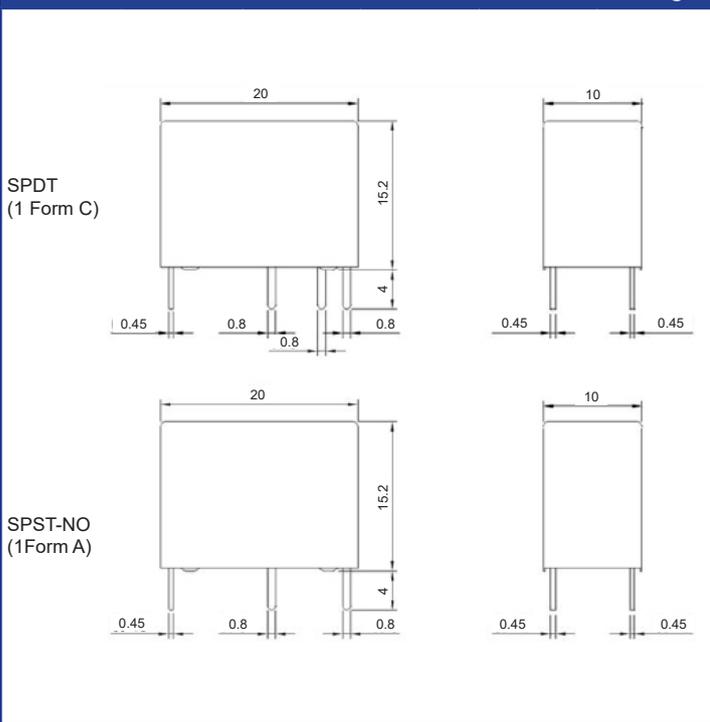
*3VDC Coils not UL approved.

Coil Data (at 20°C) 200mW Coil (SPST-NO ONLY) Table 2

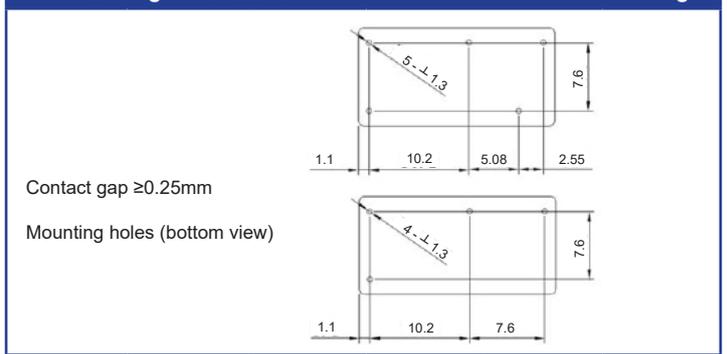
Coil code	Nominal voltage (VDC)	Coil resistance Ω $\pm 10\%$	Power consumption (mW)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Max. allowable voltage (VDC)
S003*	3	45	200	2.25	0.15	3.3
S005	5	125	200	4.00	0.25	5.5
S006	6	180	200	4.80	0.30	6.6
S009	9	405	200	7.20	0.45	9.9
S012	12	720	200	9.60	0.60	13.2
S024	24	2880	200	19.20	1.20	26.4

*3VDC Coils not UL approved.

Dimensions mm Fig. 1



PCB Mounting Dimensions mm Fig. 2



Wiring Diagrams mm (bottom view) Fig. 3

