



- 15A Continuous current capacity
- AgSnOInO contacts for motor & lamp loads
- Open, dust cover and sealed versions
- Automotive oriented design

ROHS
Compliant ✓

Contacts

Contact arrangement	SPST-NO (1 Form A); SPDT (1 Form C); SPST-NO-DM (1 Form U); SPDT-DB-DM (1 Form W)						
Contact material	AgNi0.15; AgNi90/10; AgSnOInO						
Max. switching voltage	DC	Current dependent - see Fig. 3					
Min. switching current / voltage	0.1A/5VDC (AgNi0.15), 0.5A/5VDC (AgSnOInO)						
		1 Form A	1 Form C		1 Form U	1 Form W	
			NO	NC		NO	NC
Max. continuous current	DC1	15A	15A	10A	2 x 10A	2 x 7A	2 x 5A
Max. switching current	make	60A (100A AgSnOInO)	60A (100A AgSnOInO)	12A	2 x 40A (70A AgSnOInO)	2 x 30A (50A AgSnOInO)	2 x 5A
	break	20A	20A	10A	2 x 20A	2 x 15A	2 x 5A
Initial resistance	100mΩ, max. at 0.1A/6VDC						

Coil

Rated voltage	DC	6, 12, 24V
Must release voltage	See coil table 1	
Operating range of supply voltage	See coil table 1	
Rated power consumption	DC	1.1W approx.

Insulation

Insulation resistance	100MΩ at 500VDC, 50%RH	
Dielectric strength	coil to contact	500Vrms, 1min

General Data

Operating time	typ.	3ms
Release time	typ.	1.5ms
Electrical Life	ops.	2 x 10 ⁵ (see Note 2)
Mechanical life	ops.	1 x 10 ⁷

Environmental

Ambient temperature	operating	-40 to +85°C (higher to special order)
	storage	-40 to +155°C
Shock resistance	Functional	10g 11ms
	Destructive	100g
Vibration resistance	Functional	NO 20g; NC 10g; 10-200Hz
Drop resistance	1M height drop on concrete in final enclosure	
Dimensions	L x W x H	17.7 x 15.2 x 19.7mm (covered excl. terminals)
Weight	approx.	open: 8g / covered: 12g approx.

Ordering Code

D G 1 7 - 7 0 8 W - 3 5 - 1 0 1 2 -

Series

Contact material

20: AgNI (90/10)
70: AgSnOInO
80: AgNI 0.15

Contact arrangement

11: SPDT (1 C/O, 1 Form C)
21: SPDT-NO (1 N/O, 1 Form A)
8U: SPST-NO-DM (1 Form U)
8W: SPDT-DB-DM (1 Form W)

Environmental protection

1: No cover, IP00
3: In cover, sealed - IP67
7: In cover, dust cover - IP54

Mounting & terminations

5: PCB Mounting

Options

Blank: No options. (standard)
H: UL Class H insulation for high ambient temperatures.

Coil code:
See table 1

Coil Data

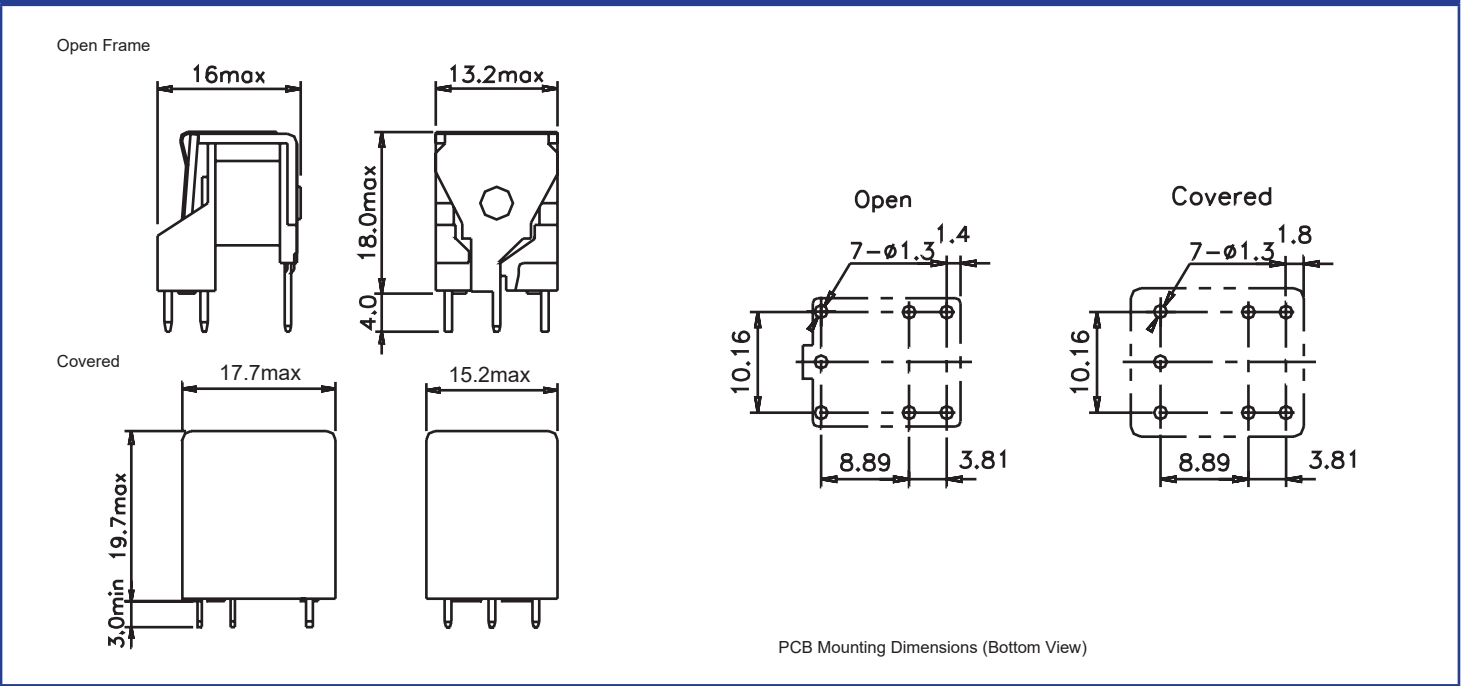
Table 1

Coil code	Nominal voltage (VDC)	Coil resistance (Ω) ±10%	Must operate voltage max. (VDC)		Allowable voltage (VDC) *	Must release voltage min. (VDC)
			1 Form A/C/U	1 Form W		1 Form A/C/U
1006	6	28	3.75	4.5	8	0.7
1012	12	130	7.50	9.0	16	1.4
1024	24	520	15.00	18.0	31	2.8

* At ambient temperature of 85°C, maximum allowable voltage should be reduced to 72%.

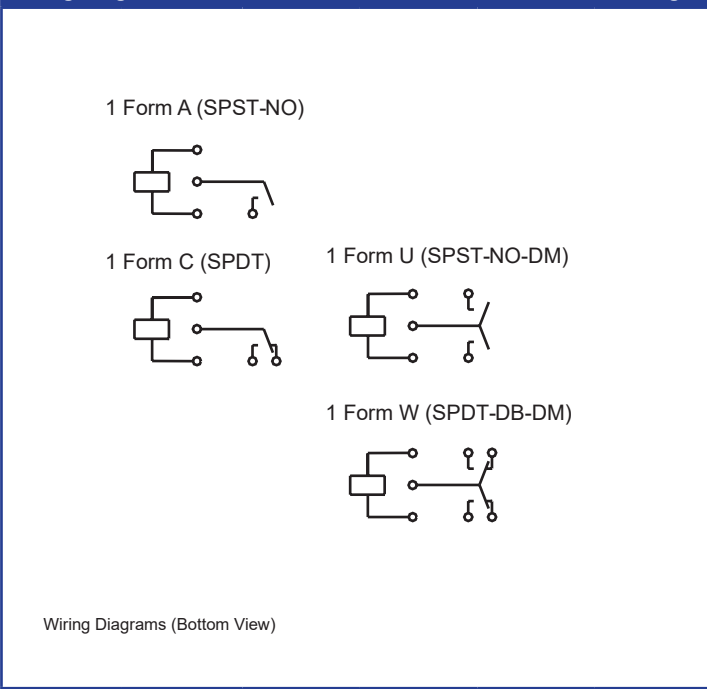
Overall Dimensions mm

Fig. 1



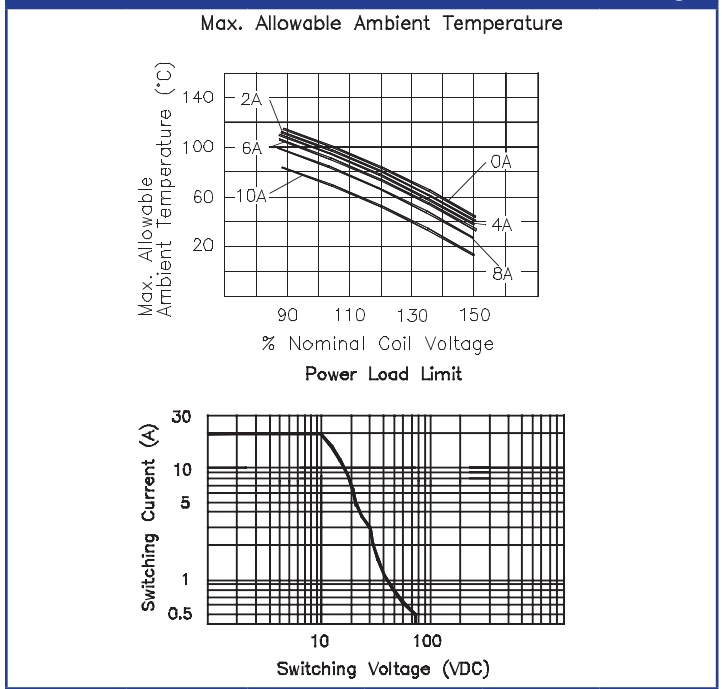
Wiring Diagrams

Fig. 2



Reference Curves

Fig. 3



Notes:

- 1: All parameters, unless otherwise specified, are measured at ambient temperature of 23°C.
- 2: Electrical life obtained at resistive or inductive load at 10A, 15VDC for 1 Form A/C/U/ & 7A, 15VDC for 1 Form W, with suitable arc suppression circuit attached & with operating frequency of 1 op/sec.
- 3: Maximum make current refers to lamp load inrush current.
- 4: For optimum electrical life, please remove the knock off nib of the sealed version after cleaning process.