



- Miniature - only 24.3 x 15.8 x 14mm
- 2 Relays in one package
- Simplified coil connections
- Up to 60A 12VDC switching
- Special option for motor loads

ROHS  
Compliant

## Contacts

Contact arrangement	2 x SPDT (2 x 1 Form C)
Contact material	AgNi0.15; AgNi90/10; AgSnOInO
Max. switching voltage	DC 16VDC (consult factory for 24VDC)
Min. switching current / voltage	100mA/5VDC (AgNi0.15); 500mA/5VDC (AgSnOInO)
Rated load	DC1 20A/12VDC
Max. continuous current	DC1 35A (10 mins) / 25A (1hr)
Max. switching current <sup>2</sup>	Make 60A break 20A
Initial contact resistance	100mΩ max. at 0.1A/6VDC

## Coil

Rated voltage	DC 6...24V
Must release voltage	≥0.1Un
Operating range of supply voltage	See coil table 1 and coil table 2
Rated power consumption	DC 0.6W (table 1) / 0.8W (table 2 increased contact gap)

## Insulation

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

## General Data

Operating time	typ.	10
Release time	typ.	5
Electrical Life <sup>3</sup>	typ.	1 x 10 <sup>5</sup>
Mechanical life	cycles	1 x 10 <sup>7</sup>

## Environmental

Ambient temperature	operating	-30 to +85°C
	storage	-40 to +100°C
Shock resistance	Functional	10g 11ms
	Destructive	100g
Vibration resistance		DA 1.5mm 10-55Hz
Dimensions	L x W x H	24.3 x 15.8 x 14.0mm (excluding terminal pins)
Weight	approx.	13g

## Ordering Code

D G 0 8 - 7 0 1 1 - 3 5 - S 0 0 9 - G H

### Series

### Contact material

20: AgNI (90/10)

70: AgSnOInO

80: AgNI 0.15

### Coil code:

See tables

1 or 2

### Contact arrangement

11: 2 x SPDT (2 x 1 Form C)

### Environmental protection

2: In cover, flux tight - IP40

3: In cover, sealed - IP67

### Mounting & terminations

5: PCB Mounting

### Options

Blank: No options.

G: Increased contact gap (may be specified with standard, Class F or Class H insulation).

F: UL Class F insulation for higher ambient temperatures.

H: UL Class H insulation for high ambient temperatures.

M: Suitable for reflow soldering.

Coil Data (600mW - standard version)

Table 1

Coil code	Nominal voltage (VDC)	Coil resistance (Ω) ±10%	Must operate voltage Max. (VDC)	Must release voltage min. (VDC)
S006	6	60	3.6	0.6
S009	9	135	5.4	0.9
S010	10	167	6.3	1.0
S012	12	240	7.3	1.2
S024	24	960	14.4	2.4

Coil Data (800mW - increased contact gap version) \*

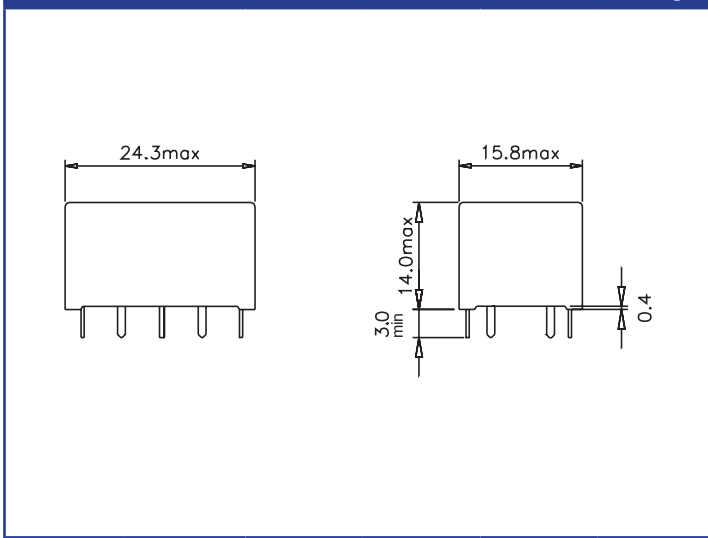
Table 2

Coil code	Nominal voltage (VDC)	Coil resistance (Ω) ±10%	Must operate voltage Max. (VDC)	Must release voltage min. (VDC)
1006	6	45	3.6	0.6
1009	9	100	5.4	0.9
1010	10	123	6.3	1.0
1012	12	180	7.3	1.2
1024	24	720	14.4	2.4

\* Contact gap increased to 0.45mm

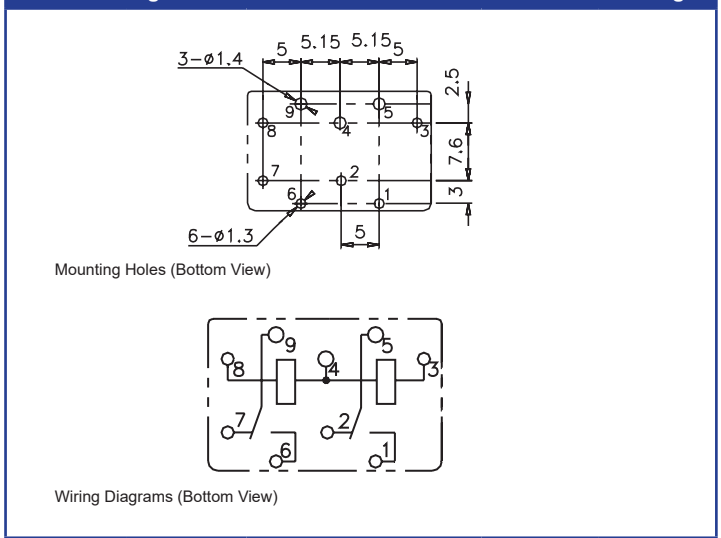
Overall Dimensions mm

Fig. 1



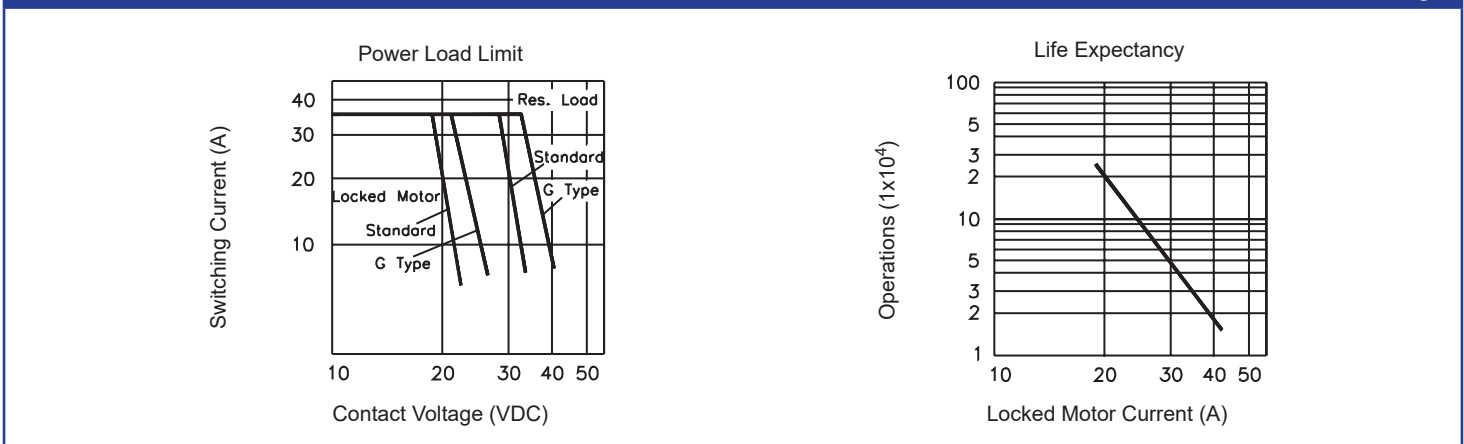
PCB Mounting Dimensions mm

Fig. 2



Reference Curves

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 lamp load.
- 3: Electrical life is obtained at motor load of locked rotor at 25A, 13.5VDC, with operating frequency of 6 ops/sec.
- 4: Electrical life is strongly dependent of switching frequency, On/Off ratio and environmental conditions