



- Miniature - only 15.7 x 12.3 x 14mm
- High switching capacity 400W, 840VA
- Up to 25A 14VDC motor inrush

ROHS
Compliant

Contacts

Contact arrangement	SPST-NO (1 Form A); SPST-NC (1 Form B); SPDT (1 Form C)
Contact material	AgSnO ₂
Max. switching voltage	AC/DC 250VAC, 16VDC
Min. breaking capacity	10mA/5VDC
Rated load (resistive - cos φ=1)	AC1 5A/250VAC, 7A/125VAC
	DC1 20A / 14VDC
Max. switching power	840VA / 400W
Initial contact resistance	≤ 100mΩ, max. at 1A/24VDC

Coil

Rated voltage	DC 6...24V
Must release voltage	≥0.08Un
Operating range	See Table 1
Rated power consumption	DC 600mW

Insulation

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

General Data

Operating time	typ. ≤ 10ms
Release time	typ. ≤ 5ms
Electrical life	1 x 10 ⁵
Mechanical life	cycles 1 x 10 ⁶

Environmental

Environmental protection	IP67
Ambient temperature	operating -40 to +85°C
	storage -40 to +85°C
Shock resistance	functional 10g
	destructive 100g
Vibration resistance	10-55Hz, DA, 2mm
Dimensions	L x W x H 15.7 x 12.3 x 14mm
Weight	approx. ≤ 6g

Ordering Code

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

Series

Coil code:

See table 1

Contact material

30: AgSnO₂

Contact arrangement

11: SPDT (1 Form C)

21: SPST-NO (1 Form A)

31: SPST-NC (1 Form B)

Environmental protection

3: in cover, sealed - IP67

Mounting & terminations

35: PCB Mounting

Coil Data at 20°C

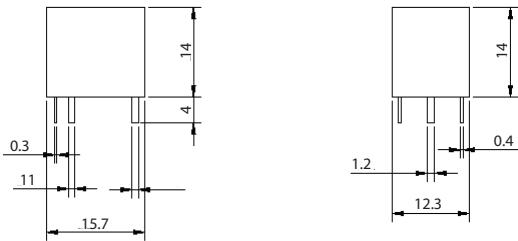
Table 1

Coil code	Nominal voltage (VDC)	Coil resistance (Ω) ±10%	Power consumption (mW)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Max allowable voltage (VDC)
S006	6	60	600	3.90	0.48	7.8
S009	9	135	600	5.85	0.72	11.7
S012	12	240	600	7.60	0.96	15.6
S024	24	960	600	15.6	1.92	31.2

Note: 800mW coil available to special order

Dimensions mm

Fig. 1



PCB Mounting Dimensions & Circuit

Fig. 2

