# **DG17**

## sub-miniature pcb automotive relay







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

RoHS Compliant

#### Contacts

Contacts								
Contact number & 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; AgCdO							
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	11011110	NO	NC	
Max. continuous current	DC1	15A	15A	10A	2 x 10A	2 x 7A	2 x 5A	
Max. switching current	Make	60A (100A AgSnOlnO)	60A (100A AgSnOInO)	12A	2 x 40A (70A AgSnOInO)	2 x 30A (50A AgSnOlnO)	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 5	00VDC, 50%	RH				
Dielectric strength	coil to contact	500Vrms, 1 min.						
General Data						-		
Operating time (typical)	3							
Release time (typical)	mS	1.5						
Electrical Life	ops	2 x 10 <sup>5</sup> (see Note 2)						
Mechanical life	ops	1 x 10 <sup>7</sup>						
Dimensions	LxWxH	17.7 x 15.2 x 19.7 (covered - excluding terminals)						
Weight		open: 8g / covered: 12g approx.						
Ambient temperature	storage	-40 to 155°C						
	operating	-40 to 85°C (higher to special order)						
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							

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Coil Data Table 1

Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance (Ω) ±10%	Must Operate (VI	Voltage Max. DC)	Allowable Voltage (VDC)*	Must release voltage min. (VDC)			
			1 Form A/C/U	1 Form W		1 Form A/C/U/W			
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%									

Ordering codes Contact Contact Cover protec-Coil code Options Туре tion and mounting material arrangement D G 5 Contact material 10 AgCdO 20 AgNi (90/10) See coil table 1 70 AgSnOInO AgNi 0.15 80 Contact arrangement 11 SPDT (1 C/O, 1 Form C) 21 SPST-NO (1N/O, 1 Form A) 8U SPST-NO-DM (1 Form U) 8W SPDT-DB-DM (1 Form W) Cover protection category no cover, IP00 3 in cover, sealed - IP67 in cover, dust cover - IP54 Connection mode 5 for PCB Coil Options Nil No options UL Class F insulation for high ambient temperatures Н UL Class H insulation for high ambient temperatures

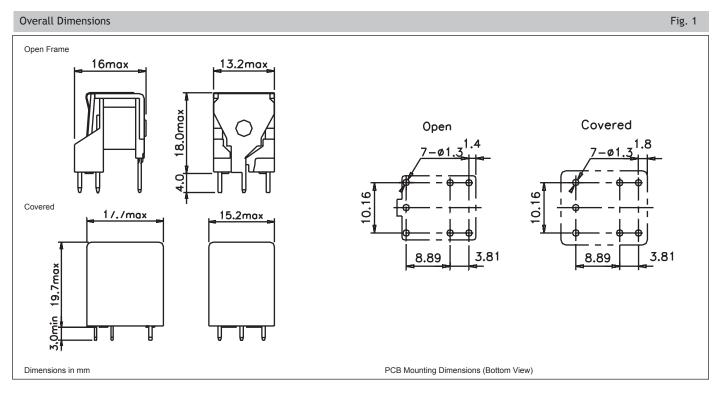
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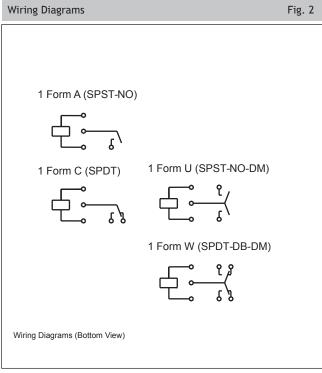


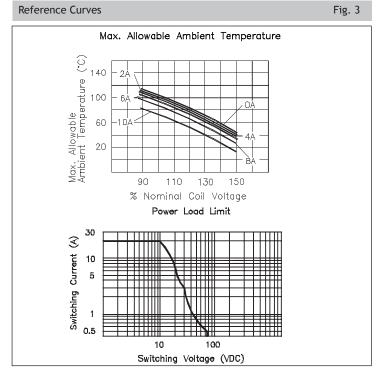
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#### Notes:

- 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/ and 7A, 15VDC for 1 Form W, with suitable arc suppression circuit attached and 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.

Specifications are subject to change without notice. E&OE.