DG08 miniature automotive twin power relay





- 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 number & arrangement		2 x SPDT (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 ² (AgSnOInO)	Make	60A	
	Break	20A	
Initial contact resistance		100mΩ max. at 0.1A/6VDC	
Coil			
Rated voltage	DC	624V	
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) for increased contact gap version	
Insulation			
Insulation resistance		100MΩ at 500VDC, 50%RH	
Dielectric strength			
coil to contact		500Vrms, 1min	
contact to contact		500Vrms, 1min	
General Data			
Operating time (typical)	ms	10	
Release time (typical)	ms	5	
Electrical Life ³	ops	1 x 10 ⁵	
Mechanical life	ops	1 x 10 ⁷	
Dimensions	LxWxH	24.3 x 15.8 x 14.0mm (excluding terminal pins)	
Weight		13g approx.	
Ambient temperature storage		-40 to 100°C	
	operating	-30 to 85°C	
Shock resistance		Functional: 10g 11ms; Destructive: 100g	
Vibration resistance		DA 1.5mm 10-55Hz	





Table 1

Table 2

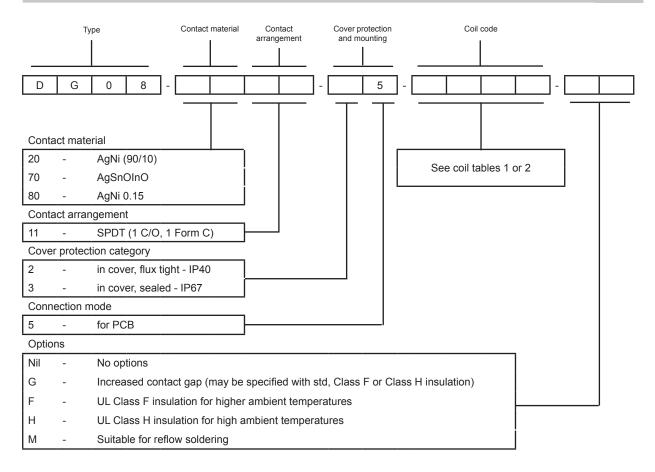
Coil Data (600mW - standard version)

Coil Voltage 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)*

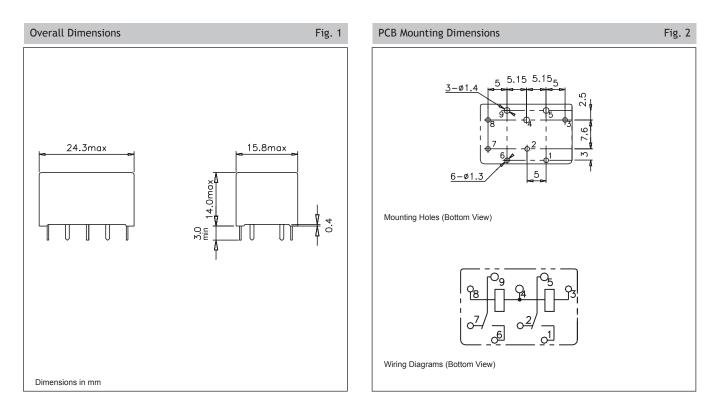
Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance (Ω) ±10%	Must operate voltage max. (VDC)	Must release voltage min. (VDC)			
1006	6	45	3.6	0.6			
1009	9	100	5.4	0.9			
1010	10	123	6.3	1.0			
1012	12	180	7.3	1.2			
1024	24	720	14.4	2.4			
* Contact gap increased to 0.45mm							

Ordering codes

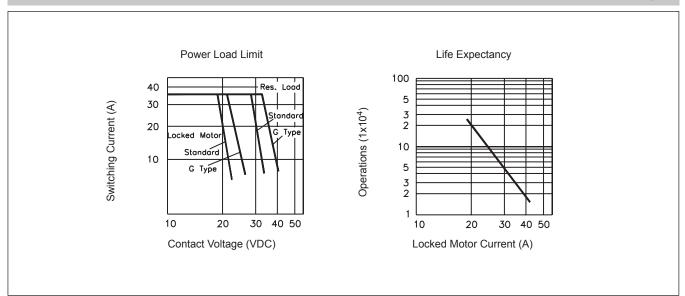




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Reference Curves



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 of 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.

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

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Fig. 3

DURAKOOL