

DG19 Series Automotive PCB / Industrial Relay





- 30A to 45A Continuous current capacity
- AgSnOInO Contacts for motor & lamp loads
- Open, dust cover and sealed versions
- US & European terminal configurations
- Automotive oriented design

							ROHS Compliant	
Contacts						Ordering Code		
Contact arrangement		SPST-NO (1	Form A), SI	PST-NC (1 Fo	orm B),			
	SPDT (1 Form C)				DG19-8031-75-	-1 0 2 4 -8 1 D		
Contact material	AgNi0.15, AgNi90/10, AgSnOInO, AgSnO ₂							
Max. switching voltage	30VDC - Current dependent - see Fig. 4				<u>Series</u>	Coil code:		
Min. switching current / voltage		0.01A/12VDC (AgNi0.15), 0.5A/5VDC (AgSnOInO)					See table 1	
		1 Form A	form A 1 Form B	1 Form C		Contact material		
		1101117	110111111	NO	NC	20: AgNi (90/10)		
Max. continuous current	DC1	45A (AgSnOlnO) 40A (AgSnO ₂)	30A	45A (AgSnOlnO) 40A (AgSnO ₂)	30A	30: AgSnO ₂ **		
Max. switching current	make	180A (AgSnOlnO) 100A	30A	180A (AgSnOlnO) 100A	30A	70: AgSnOInO 80: AgNi 0.15		
	break	60A	30A	60A	30A	<u> </u>		
Initial resistance						Contact arrangement		
Coil					11: SPDT (1 C/O, 1 Form C)			
Rated voltage	DC	6, 12, 24V				21: SPST-NO (1 N/O, 1 Form A)		
Must release voltage		10% U _n				31: SPST-NC (1 N/C 1Form B)		
Operating range		See Table 1						
Rated power consumption	DC	1.5W approx.				Environmental protection		
Insulation						1: No cover, IP00		
Insulation resistance		>100 MΩ at 500VDC, 50%RH				3: In cover, sealed - IP67		
Dielectric strength	500Vrms, 1min.				7: In cover, dust cover - IP54			
General Data								
Operating time	ms	≤ 5				Mounting & terminations		
Release time	ms	≤ 3				5: PCB Mounting		
Electrical life	ops.	2 x 10 ⁵ (see note 2)						
Mechanical life	cops.	1 x 10 ⁷				Footprint style		
Environmental						11: European pin configuration		
Ambient temperature	-40 to +125°C (higher to special order)				81: US pin configuration (covered - 1 less terminal - fig. 2)			
	-40 to +155°C				81D: "Old" US covered pin configuration - 1 extra terminal (Fig.3)			
Shock resistance functions		20g 11ms						
	100g				Notes: **Contact rating for SPDT DG1 the NO contact & 30A for the NC contact			
Vibration resistance	Functional	NO 20g; NC 10g 20-200Hz				to avoid inadvertent application of exce		
Drop resistance		1M height drop on concrete in final enclosure						
Dimensions		various - see dimensions Fig. 1						
Weight	approx.	open: 18g /	covered: 23g	g approx.				

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

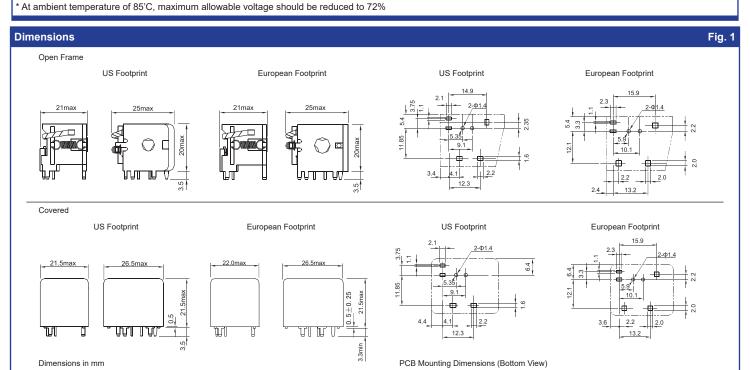


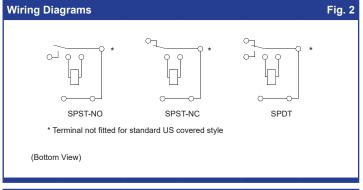


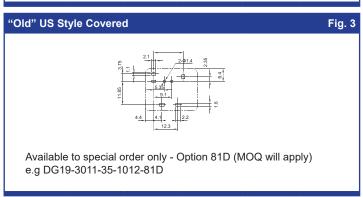
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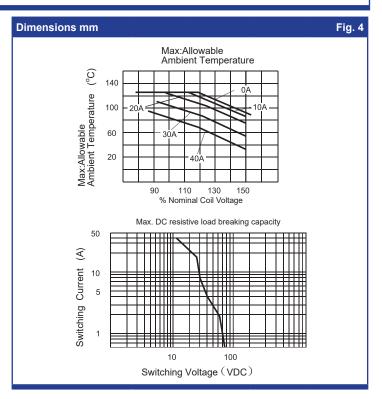
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Coil Data Table											
Coil code	Nominal voltage (VDC)	Coil resistance (Ω) ±10% @ 20°C	Must operate voltage max. (VDC)	Max.allowable voltage (VDC)*	Must release voltage min. (VDC)						
1006	6	19	3.3	8	0.6						
1012	12	90	6.8	16	1.2						
1024	24	362	13.9	31	2.4						









Notes

DG19 122321FW

- 1: All parameters, unless otherwise specified, are measured at ambient temperature of 23°C.
- 2: Electrical life obtained at resistive or inductive load at 40A, 13.5VDC, with suitable arc suppression circuit attached and with operating frequency of 1 op/sec.
- 3: Maximum make current refers to lamp load inrush current. Consult factory for motor and capacitive loads.
- 4: For optimum electrical life, please remove the knock off nib of the sealed version after cleaning process.

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