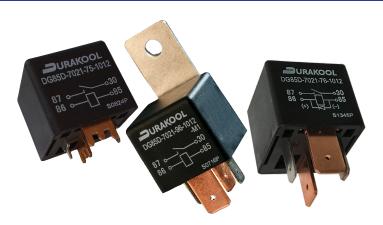


DG85D Series automotive / industrial relay



- High continuous DC current capacity 100A
- General purpose automotive or industrial relays
- High inrush capabilities
- PCB Mounting option
- Ideal for DC Motor Control
- Industry standard size and footprint

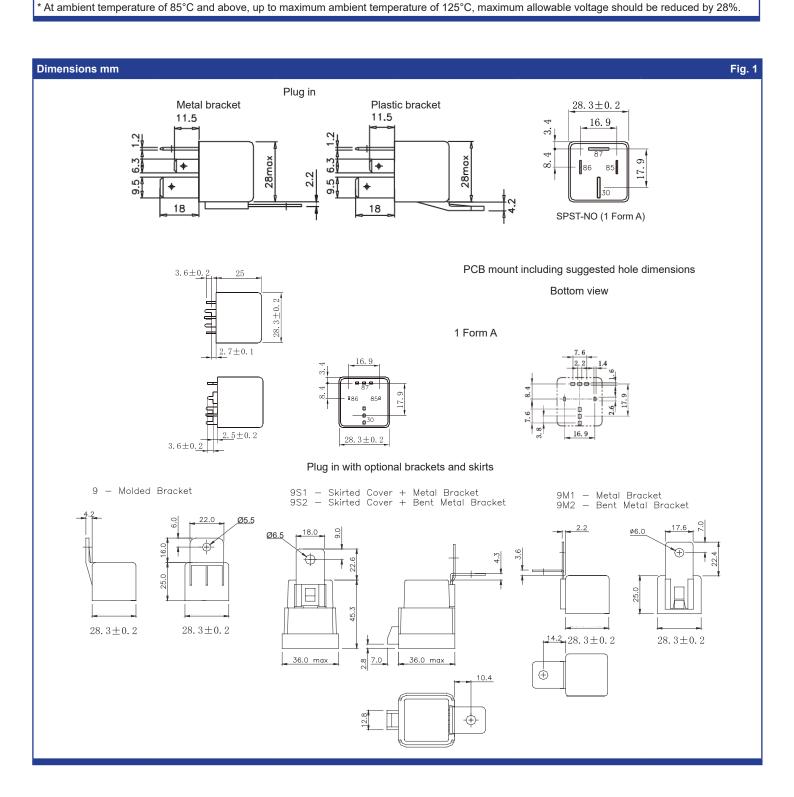
		ROHS Compliant		
Contacts		Ordering Code		
Contact arrangement	SPST-NO (1 Form A)			
Contact material	AgSnOInO	DG85D - 7 0 2 1 - 9 6 - 1 0 1 2 - M 1 D		
Max. switching voltage DC	30VDC (current dependent - see fig. 3)			
Max. continuous current	100A	Series Coil code:		
Max. switching current ³ make	240A	See table 1		
Max. switching current break	100A	Contact material		
Min. switching current	0.5A 12VDC	70: AgSnOlnO		
Contact gap	≤1.0mm			
Initial resistance	<100mΩ, max. at 0.1A/6VDC	Contact arrangement		
Coil		21: SPST-NO (1 N/O, 1 Form A)		
Rated voltage DC	624V			
Must release voltage	≥0.1Un	Environmental protection		
Operating range of supply voltage	See table 1	3: In cover, sealed, IP67 (not with S1 or S2)		
Rated power consumption DC	1.6W; 1.81W with resistor	7: In cover, dust cover IP54		
nsulation		9: Cover with mounting bracket*		
Insulation resistance	100MΩ at 500VDC, 50%RH	* integral plastic bracket unless metal bracket specified.		
Dielectric strength coil to contact	500Vrms, 1min	Connection mode		
open contacts	500Vrms, 1min	5: for PCB		
General Data		6: Flat blades		
Operating time typ.	7ms			
Release time typ.	2ms	Mounting & terminations		
Electrical life ² ops.	1 x 10 ⁵	Blank: No options		
Mechanical life ops.	1 x 10 ⁷	M1: Metal bracket		
Environmental		M2: Bent metal bracket		
Ambient temperature operating	-40 to 125°C (Derate above 85°C - consult factory)	S1: Skirted cover & bent bracket		
storage	-40 to +155°C	S2: Skirted cover & bent metal bracket		
Shock resistance functional	20g, 11ms			
destructive	100g	Parallel component options		
Vibration resistance	DA1.27mm 10-40Hz / 40-70Hz:5g	Blank: No option		
	DA0.5mm 100-500Hz: 10g	R: Integral resistor		
Dimensions L x W x H	28.3 x 28.3 x 25.0 mm (excluding terminals)	D: Integral diode +85/+86		
Weight approx.	40g depending on mounting	DR: Integral diode reversed -85/+86 - standard		

DG85D 082520JHM

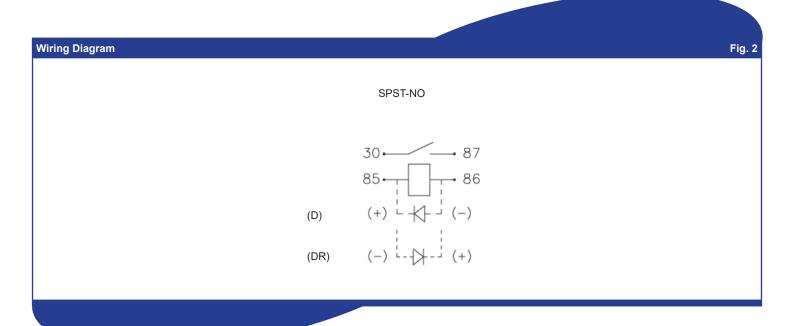
Specifications are subject to change without notice. E&OE.

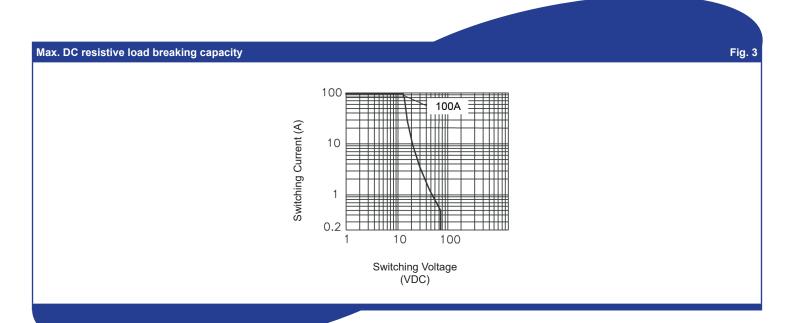


Coil Data Table						
Coil code	Nominal voltage (VDC)	Coil resistance Ω ±10%	Must operate voltage max. (VDC)	Max. allowable voltage (VDC)*	Must release voltage min. (VDC)	
1006	6	22	3.6	10.1	0.6	
1012	12	90	7.2	20.5	1.2	
1024	24	330	14.4	39.1	2.4	









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 100A, 15VDC with suitable arc suppression circuit attached and with operating frequency of 1 op/sec.
- 3: Maximum make current refers to lamp load inrush current.

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