





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

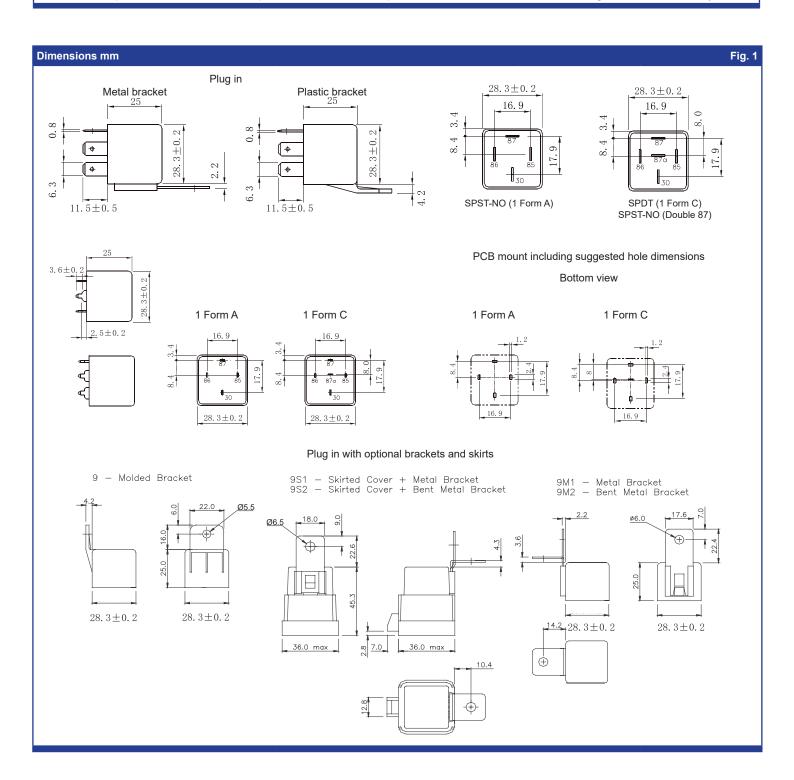
		ROHS Compl	iant 🗸	
Contacts		Ordering Code		
Contact arrangement	SPST-NO (1 Form A); SPDT (1 Form C)			
Contact material	AgNi0.15; AgNi90/10; AgSnOInO	DG85A - 2 0 2 1 - 9 6 - 1 0 1 2 -	M 1 D F	
Max. switching voltage DC	30VDC (current dependent - see fig.3)			
Max. continuous current	SPST-NO 40A, SPDT (NO/NC) 40A/30A	Series Coil code:		
Max. switching current³ (AgSnOlnO) make	SPST-NO 120A, SPDT (NO/NC) 120A/45A	See table 1		
Max. switching current break	SPST-NO 40A, SPDT (NO/NC) 40A/30A	Contact material		
Min. switching current (AgNi)	0.1A 12VDC	20: AgNi	11 1	
Contact gap	>0.5mm	70: AgSnOInO Contact arrangement		
Initial resistance	<100mΩ, max. at 0.1A/6VDC	80: AgNi0.15 * 11: SPDT (1 C/O, 1 Form C)		
Coil		* Consult factory 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 metal bracket)		
Rated power consumption DC	1.6W; 1.81W with resistor	7: In cover, dust cover IP54		
Insulation		9: Cover & plastic mounting bracket (Unless		
Insulation resistance	100MΩ at 500VDC, 50%RH	optional metal bracket selected)		
Dielectric strength coil to contact	500Vrms, 1min			
open contacts	500Vrms, 1min	Connection mode		
General Data		5: for PCB		
Operating time typ.	7ms	6: Flat blades		
Release time typ.	2ms	D: Double 87 flat blades (SPST-NO only)		
Electrical life ² ops.	1 x 10 ⁵			
Mechanical life ops.	1 x 10 ⁷	Mounting & terminations		
Environmental		Blank: No options		
Ambient temperature operating	-40 to 125°C (Derate above 85°C - consult factory)	M1: Metal bracket		
storage	-40 to +155°C	M2: Bent metal bracket		
Shock resistance functional	20g, 11ms	S1: Skirted cover & bent bracket		
destructive	100g	S2: Skirted cover & bent metal bracket		
Vibration resistance	DA1.27mm 10-40Hz / 40-70Hz:5g			
	DA0.5mm 100-500Hz: 10g	Parallel component options		
Dimensions L x W x H	28.3 x 28.3 x 25.0 mm (excluding terminals)	Blank: No option		
	40g depending on mounting	R: Integral resistor		
· ·	-	D: Integral diode +85/+86		
		DR: Integral diode reversed -85/+86 - standard		
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Specifications are subject to change without notice. E&OE.

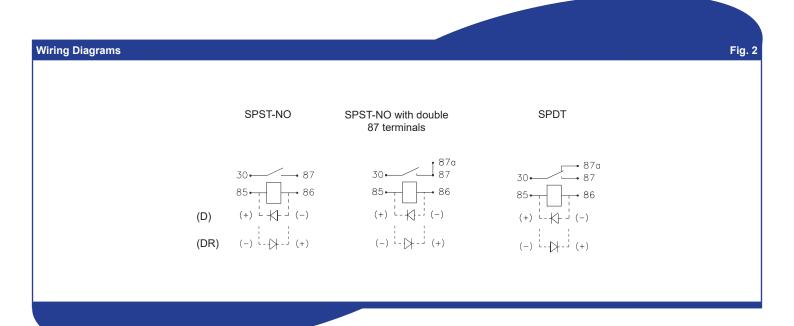


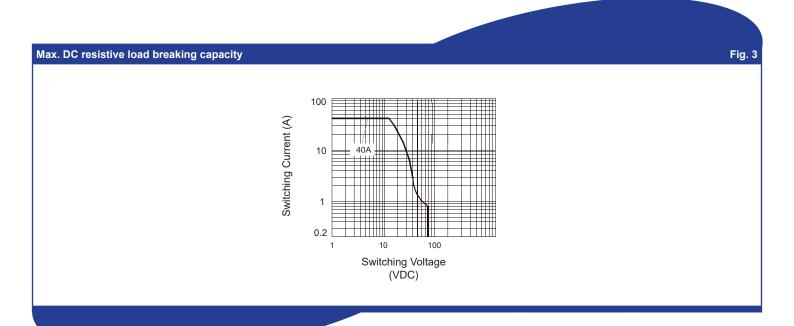
Coil Data Table 1						
Coil code	Nominal voltage (VDC)	Coil resistance Ω ±10%	Must operate voltage max. (VDC)	Max. allowable voltage (VDC)*	Must release voltage min. (VDC)	
1006	6	22	3.6	10.1	0.6	
1012	12	90	7.2	20.5	1.2	
1024	24	330	14.4	39.1	2.4	

^{*} At ambient temperature of 85°C and above, up to maximum ambient temperature of 125°C, maximum allowable voltage should be reduced by 28%.









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 40A, 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.