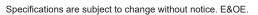


DG85F Series automotive / industrial relay



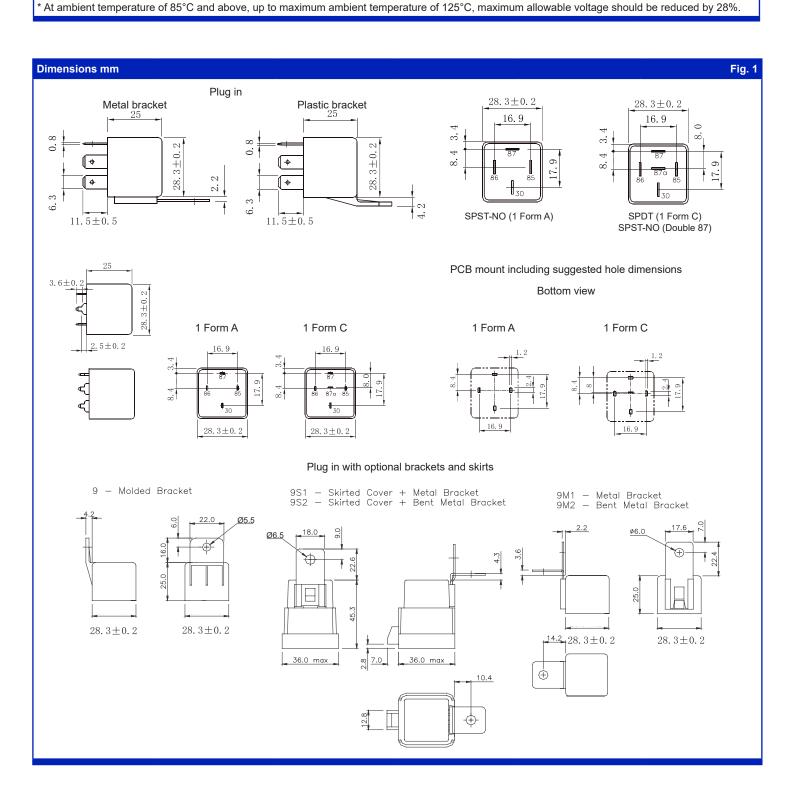
- General purpose automotive or industrial relays
- High inrush capabilities
- PCB Mounting option
- Ideal for DC Motor Control
- Industry standard size and footprint
- Optimised for 24VDC switching

			ROHS Compliant	
Contacts	Ordering Code			
Contact arrangement	SPST-NO (1 Form A); SPDT (1 Form C)			
Contact material	AgNi0.15; AgNi90/10; AgSnOInO	DG85F-2011-96-10) 2 4 - M 1 D F	
Max. switching voltage	C 24VDC (current dependent - see fig. 3)			
Max. continuous current	SPST-NO 60A, SPDT (NO/NC) 60A/40A	Series Coil o	code:	
Max. switching current³ (AgSnOlnO) ma	e SPST-NO 120A, SPDT (NO/NC) 120A/45A	See t	table 1	
Max. switching current bre	k SPST-NO 40A, SPDT (NO/NC) 60A/40A	Contact material		
Min. switching current (AgNi)	0.5A 12VDC	20: AgNi		
Contact gap	>1.0mm	70: AgSnOlnO 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 D	C 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 D	C 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 conta	ct 500Vrms, 1min			
open contac	s 500Vrms, 1min	Connection mode		
General Data		5: for PCB		
Operating time ty	o. 7ms	6: Flat blades		
Release time ty	o. 2ms			
Electrical life ² op	s. 5x10 ⁴ , 60A/40A, 1x10 ⁵ , 40A/20A (NO/NC contacts)	Mounting & terminations		
Mechanical life op	s. 5 x 10 ⁵	Blank: No options		
Environmental		M1: Metal bracket		
Ambient temperature operation	g -40 to 125°C (Derate above 85°C - consult factory)	M2: Bent metal bracket		
stora	e -40 to +155°C	S1: Skirted cover & bent bracket		
Shock resistance function	al 20g, 11ms	S2: Skirted cover & bent metal bracket		
destructi	e 100g			
Vibration resistance	DA1.27mm 10-40Hz / 40-70Hz:5g	Parallel component options		
	DA0.5mm 100-500Hz: 10g	Blank: No option		
Dimensions L x W x	H 28.3 x 28.3 x 25.0 mm (excluding terminals)	R: Integral resistor		
Weight appro	x. 40g depending on mounting	D: Integral diode +85/+86		
		DR: Integral diode reversed -85/+86 - sta	andard	

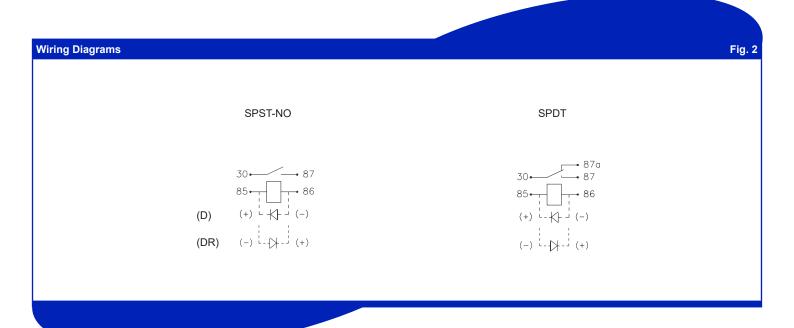


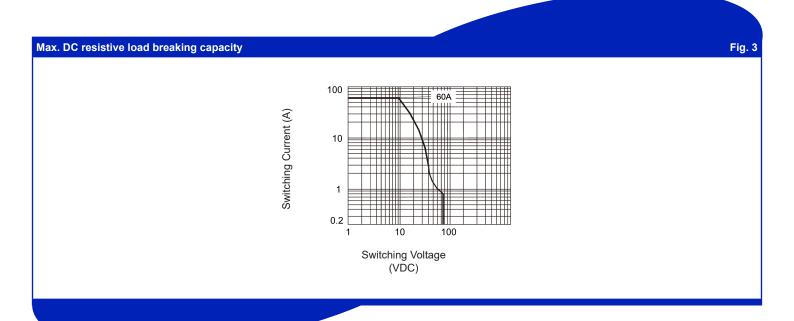


Coil Data					Table 1
Coil code	Nominal voltage (VDC)	Coil resistance Ω ±10%	Must operate voltage max. (VDC)	Max. allowable voltage (VDC)*	Must release voltage min. (VDC)
1006	6	15.6	3.6	6.4	0.6
1012	12	62.5	7.2	14.8	1.2
1024	24	250	14.4	28.8	2.4









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 60A, 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.

Specifications are subject to change without notice. E&OE