

DG85CM Series Automotive / Industrial Relay

- General purpose automotive or industrial relays
- High inrush capabilities
- Ideal for DC motor control
 - High continuous DC current capacity

Undustry standard terminal arrangement
Optimised for up to 145VDC switching with magnetic

arc blowout

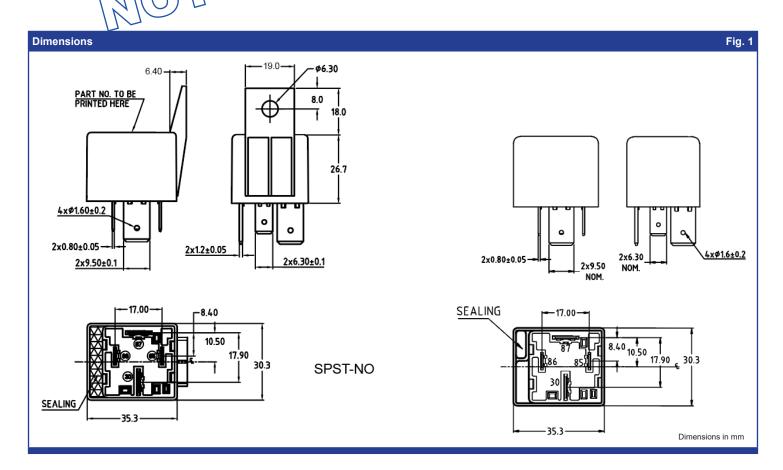
			RoHS	
			Compliant 💙	
Contacts	JOIN IN	Ordering Code		
Contact arrangement	SASTAND (1 Edma)			
Contact material AgSnO ₂		DG85CM - 5 0 2 1 - 9 6 - 1 0 1 2 - D R		
Max. switching voltage DC	145VDC			
Contact rating (through N/O & N/C contacts)	60A @ 36VDC	<u>Series</u>	Coil code:	
	50A @ 48VDC		See table 1	
	40A @ 60VDC	Contact material		
	25A @ 72VDC	50: AgSnO ₂		
	10A @ 110VDC			
	5A @ 145VDC	Contact arrangement		
Max. switching current (3 sec)	150A@12.8VDC	21: SPST-NO (1 N/O, 1 Form A)		
Min. switching current	100mA / 12 VDC			
Initial contact resistance	<100mΩ at 0.1A/6VDC	Mounting & terminations IP54		
Coil		7: Dust cover		
Nominal voltage DC	6110V	9: Cover with		
Must release voltage	See coil table 1	plastic mounting bracket		
Operating range of supply voltage	See coil table 1			
Rated power consumption DC	1.92W	Connection mode		
Insulation		6: Flat blades		
Insulation resistance	100MΩ at 500VDC, 50%RH, 25°C			
Dielectric strength		<u>Options</u>		
coil to contact	750Vrms / 1 min	Blank: No options		
contact to contact	500Vrms / 1 min	R: Integral resistor		
General Data		D: Integral diode +85, -86		
Operate time	≤ 15ms (Excl. bounce & without coil suppression)	DR: Integral diode reversed -85, +	-86 standard	
Release time	≤ 15ms (Excl. bounce & without coil suppression)			
Electrical Life ops.	1x10 ⁵ (at rated load, 10 ops./minute)			
Mechanical life ops.	1 x 10 ⁶			
Environmental				
Ambient temperature operating	-40 to +85°C (max. = 155°C)			
storage	-40 to +85°C (at nominal coil voltage - see table 1)			
Shock resistance destructive	100g			
functional	30g 8ms			
Vibration resistance	10 to 50Hz 4.4g			
Dimensions L x W x H	35 x 30.5 x 27mm			
Weight approx.	65g approx depending on mounting			

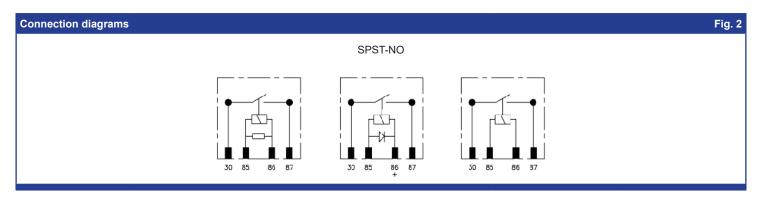
DG85CM 120320JHM

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



Coil code	Nominal voltage (VDC)	Coil resistance (Ω) ±10%	Must operate voltage max (VDC)	Must release voltage min. (VDC)	Parallel resistor (option) (Ω) ±10%
1006	6	20	4.0	0.6	*
1009	9	45	100	0.9	LATES
1012	12	75	8.0	12/1/(300
1024	24	250	16.0	(E)	*
1036	36	650	24.0	9.6	*
1048	48	1100	V32.0	4.8	*
1110	110	5500	73.2	11.0	not available
pecifications at 23°C	ambient	MK 11-			





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