

DG31H Series Miniature High Temp PCB Power Relay

NOT FOR NEW DESIGN



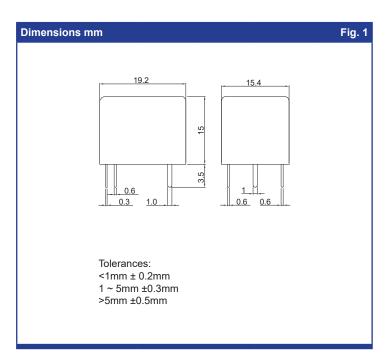
- Miniature only 19 x 15.4 x 15mm
- 12A @ 250VAC, 15A @ 125VAC
- 105°C Operating Temperature
- Domestic appliances, office equipment etc.

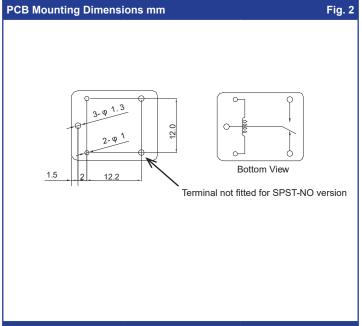
		ROHS C C C SUS Compliant		
Contacts	40042950 E305753 Ordering Code			
Contact arrangement	SPST-NO (1 Form A); SPDT (1 Form C)			
Contact material	AgSnO ₂ (standard)	D G 3 1 H - 3 0 1 1 - 3 5 - 1 0 0 5		
Max. switching voltage AC/DC	250VAC, 28VDC			
Min. switching current / voltage	100mA / 12VDC	Series Coil code:		
Rated load UL	15A/ 125VAC TV-5	See table 1 Contact material		
VDE	10A/250VAC (NO Contact), 7A/250VAC (NC Contact)			
Max. switching current	15A	30: AgSnO ₂		
Max. switching power	3000VA / 280W			
Initial resistance	<50mΩ, max. at 1A/6VDC	Contact arrangement		
Coil		11: SPDT (1C/O, 1 form C)		
Rated voltage DC	348V (3V not UL)	21: SPST-NO		
Must release voltage	≥0.1Un			
Operating range	See table 1	Environmental protection		
Rated power consumption DC	360mW	3: In cover, sealed - IP67		
Insulation				
Insulation resistance	1000MΩ at 500VDC, 50%RH	Mounting & terminations		
Insulation category (creepage resistance)	CTI250	5: For PCB		
UL Insulation system	Class F (155°C)			
Dielectric strength coil to contact	1500Vrms, 1min (50/60Hz)			
contact to contact	1000Vrms, 1min (50/60Hz)			
Surge resistance	3000V (between coil & contact, 1.2 x 50μs			
General Data				
Operating time typ.	10ms			
Release time typ.	5ms			
Electrical life ops.	1 x 10 ⁵ (at rated resistive load - 1,800 ops/hr)			
Mechanical life ops.	1 x 10 ⁷ (no load, 18,000 ops/hr)			
Environmental				
Ambient temperature operating	-40 to +105°C (40 to 85°C VDE)			
storage	-40 to +105°C			
Shock resistance functional	10g 11ms			
destructive	100g			
Vibration resistance	DA 1.5mm 10-55Hz			
Dimensions L x W x H	19.5 x 15.4 x 15mm			
Weight approx.	9g approx.			





Coil Data (360mW) Table 1						
Coil code	Nominal voltage (VDC)	Coil resistance Ω ±10%	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Max. allowable voltage (VDC)	
1003¹	3	25	2.25	0.30	3.9	
1005	5	70	3.75	0.50	6.5	
1006	6	100	4.50	0.60	7.8	
1009	9	225	6.75	0.90	11.7	
1012	12	400	9.00	1.20	15.6	
1024	24	1600	18.00	2.40	31.2	
1048	48	6400	36.00	4.80	62.4	
1 3VDC Coil not UL approved.						





Notes:

- 1: All parameters, unless otherwise specified, are measured at ambient temperature of 23°C.
- 2: Maximum make current refers to inrush current of motor load.
- 3: Electrical life is strongly dependent of switching frequency, On/Off ratio and environmental conditions.