DG31H

miniature hi-temp pcb power relay





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







Contacts

Contact number & arrangement		SPST-NO (1 Form A); SPDT (1 Form C)		
Contact material		AgSnO ₂ (standard)		
Max. switching voltage	DC	28V		
	AC	250V		
Min. switching current / voltage		100mA / 12VDC		
Rated load		12A / 250VAC, 15A / 125VAC;		
		15A/ 125VAC TV-5		
May authoring aurrent	VDE	10A/ 250VAC (NO Contact), 7A/ 250VAC (NC Contact)		
Max. switching current Max. switching power		15A 3000VA / 280W		
<u> </u>				
Initial resistance		<50mΩ, max. at 1A/6VDC		
Coil Rated voltage	DC	348V (3V not UL)		
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Must release voltage		≥0.1Un		
Operating range of supply voltage	DC	See coil table 1		
Rated power consumption	DC	360mW		
Insulation		400040 4 500 /00 500/01		
Insulation resistance (min.)		1000MΩ at 500VDC, 50%RH		
Insulation Category (creepage resistance)		CTI250		
UL Insulation system		Class F (155°C)		
Dielectric strength		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 (max.)	mS	10		
Release time (max.)	mS	5		
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)		
Dimensions	LxWxH	19 x 15.4 x 15mm		
Weight		9g approx.		
Ambient temperature storage		-40 to 105°C		
	operating	-40 to 105°C (-40 to 85°C VDE)		
Shock resistance		Functional: 10g 11mS; Destructive: 100g		
Vibration resistance		DA 1.5mm 10-55Hz		

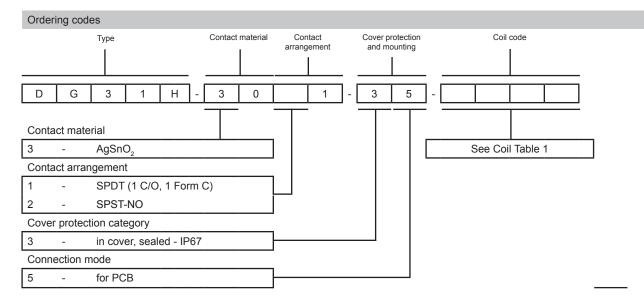
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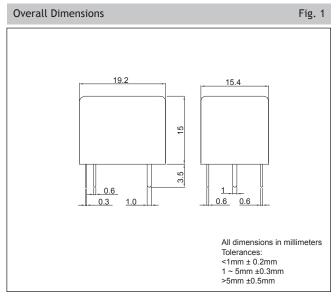
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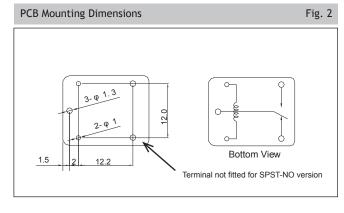


Coil Data (360mW) Table 1

Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance (Ω) ±10%	Must operate voltage max. (V DC)	Must release voltage min. (V DC)	Max. allowable voltage (V DC)	
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.

