



- Ultra miniature - only 16 x 11 x 11.5mm
- Up to 5A /24VDC rating
- DIL Pitch PCB mounting
- Cost effective



RoHS
Compliant ✓

Contacts

Contact arrangement	SPDT (1 Changeover); 1 Form C
Contact material	AgNi0.15; AgNi0.15 + Au plated
Max. switching voltage	AC/DC 120VAC, 24VDC
Min. switching current / voltage	5mA / 6VDC (Au plated)
Rated load	AC1 1A (Au plated), 3A, 120VAC (0.2 / 0.36W Coil); 5A, 120VAC (0.45W Coil)
	DC1 1A (Au plated), 3A, 24VDC (0.2/0.36W Coil); 5A, 24VDC (0.45W Coil)
Initial resistance	100mΩ max. at 100mA/6VDC (IEC61810-7)

Coil

Rated voltage	DC 3...24V
Must release voltage	≥0.1U _n
Operating range	See tables 1, 2 & 3
Rated power consumption	DC 0.2W (table 1) / 0.36W (table 2) / 0.5W (table 3)

Insulation

Insulation resistance	100MΩ at 500VDC, 50%RH
Dielectric strength	coil to contact 1250Vrms, 1min
	contact to contact 500Vrms, 1min/750Vrms, 1min 0.45W coil version

General Data

Operating time	typ. 5ms
Release time	typ. 5ms
Electrical life	ops. 1 x 10 ⁵
Mechanical life	ops. 1 x 10 ⁷

Environmental

Ambient temperature	operating	-25 to +55°C
	storage	-25 to +55°C
Shock resistance	functional	10g, 11ms
	destructive	100g
Vibration resistance	DA 1.5mm 10-55Hz	
Dimensions	L x W x H	16 x 11 x 11.5mm
Weight	approx.	4g

Ordering Code

D T C 0 - 2 3 1 1 - 3 5 - 1 0 2 4 - 1

Series

Footprint

0: Standard
0B: Alternate

Contact material

20: AgNi0.15
23: AgNi0.15 + Au plated

Contact arrangement

11: SPDT (1 C/O)

Environmental protection

2: In cover, dust cover - IP40
3: In cover, flux tight - IP67

Mounting & terminations

5: For PCB

Contact current rating

1: 1A (recommended with AgNi0.15 +Au plated contacts), 3A max.
3: 3A (with AgNi0.15 contacts)
5: 5A (450mW Coil Table 3 only)

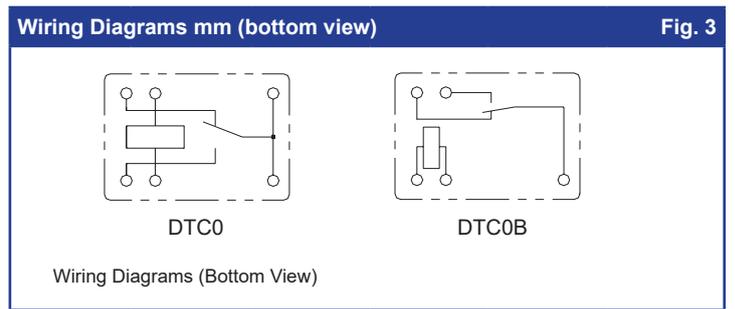
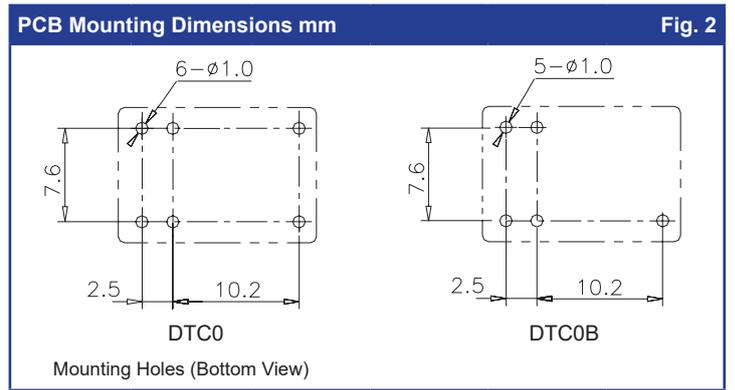
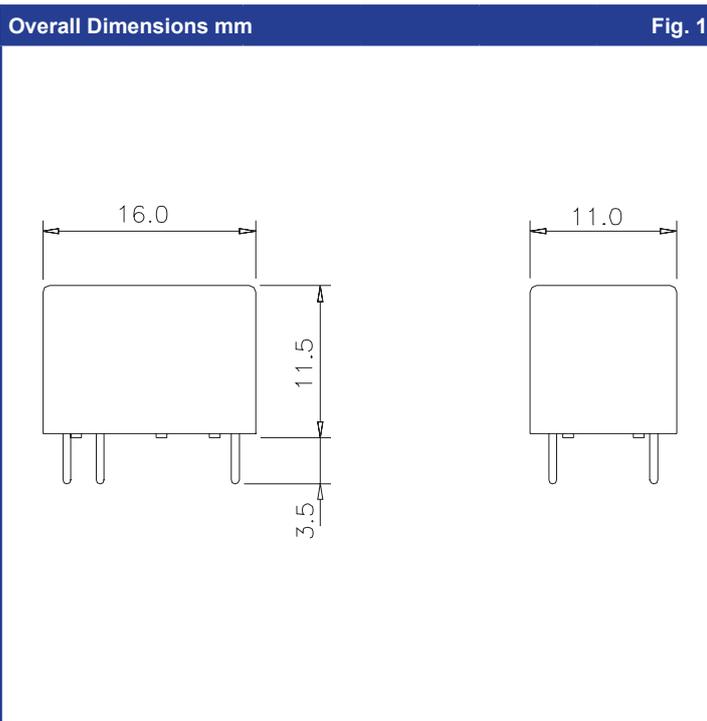
Notes:

For AC loads this relay is designed for 50-60Hz standard industrial power and was tested according to AC1 category as defined by the IEC 60947-1 standard, covering low-frequency switchgear (typically 50-60 Hz). Operating at higher frequencies, places the component outside its certified utilisation category, invalidating all safety certifications (CE, UL, etc.) and manufacturer performance guarantees.

Coil Data (200mW)					Table 1
Coil code	Nominal voltage (VDC)	Coil resistance (Ω) ±10%	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	
S003	3	45	2.25	0.3	
S005	5	120	3.75	0.5	
S009	9	440	6.85	0.9	
S012	12	700	9.00	1.2	
S024	24	2800	18.00	2.4	

Coil Data (360mW) - Standard					Table 2
Coil code	Nominal voltage (VDC)	Coil resistance (Ω) ±10%	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	
1003	3	25	2.25	0.3	
1005	5	70	3.75	0.5	
1009	9	220	6.85	0.9	
1012	12	400	9.00	1.2	
1024	24	1600	18.00	2.4	

Coil Data (450mW - 5A Contacts)					Table 3
Coil code	Nominal voltage (VDC)	Coil resistance (Ω) ±10%	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	
H003	3	20	2.25	0.3	
H005	5	56	3.75	0.5	
H009	9	180	6.85	0.9	
H012	12	320	9.00	1.2	
H024	24	1280	18.00	2.4	



Reference Curves

Fig. 4

