

Miniature PCB Relay T7C

- Up to 12A switching capacity
- **UL Class F coil insulation system**
- 1 form A (NO) and 1 Form C (CO) contact arrangement

Typical applications Appliances, HVAC, office machines





Approvals

UL E22575, TUV R50140298

Technical data of approved types on request

Contact Data	
Contact arrangement	1 form A (NO), 1 form C (CO)
Rated voltage	240VAC, 24VDC
Max. switching voltage	240VAC, 24VDC
Rated current	10A
Contact material	AgCdO, Ag
Min. recommended contact load	100mA at 5VDC
Frequency of operation	360 ops./h
Operate/release time max.	10/5ms
Electrical endurance	
104 240VAC / 24V/DC roo 20 to	95°C 600ana/hr 100v103 ana

10A 240VAC / 24VDC res, -30 to +85°C, 600ops/hr 100x10° ops. Contact ratings 10A Mechanical endurance, DC coil 5x10⁶ operations

Coil Data	
Coil voltage range	3 to 48VDC
Operative range, IEC 61810	2
Coil insulation system according UL	Class F

Coil data (continued)

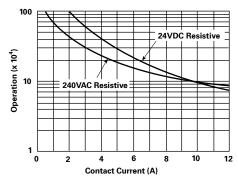
Coil vers	sions, DC co	il
Coil	Rated	Operate
code	voltage	voltage
	VDC	VDC

Coll	Hated	Operate	Helease	Coll	Hated coll
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
03	3	2.25	0.15	25	360
05	5	3.75	0.25	69.4	360
06	6	4.5	0.3	100	360
09	9	6.75	0.45	225	360
12	12	9.0	0.6	400	360
24	24	18.0	1.2	1600	360
48	48	36.0	2.4	4517	510

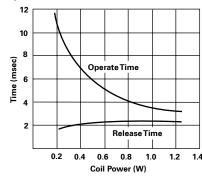
All figures are given for coil without pre-energization, at ambient temperature +23°C.

750V _{rms}	
1500V _{rms}	
>1.6/3.2mm	
	1500V _{ms}

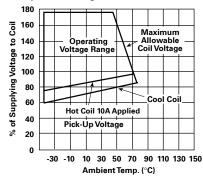
Electrical endurance



Operate time



Coil operative range





Miniature PCB Relay T7C (Continued)

Other Data					
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content					
refer to the R	Product Compliance Support Center at				
www.tycoelectronics.com	m/customersupport/rohssupportcenter				
Ambient temperature	-30°C to +85°C				
Category of environmental protection					
IEC 61810	RTII - flux proof				
	RTIII - wash tight				
Shock resistance (functional)	10g				
Shock resistance (destructive)	100g				
Weight	12g				
Resistance to soldering heat THT					
IEC 60068-2-20	RTII: 270°C/10s				
	RTIII: 260°C/5s				
Packaging unit	tube/40 pcs., carton box/1000 pcs.				

Accessories	
Product Code	Description
27E1064	Socket, rated 10A at 300VAC. UL Recognized for US
	and Canada. Designed to fit same suggested board
	layout as relay.
20C430	Spring is designed to secure T7C relay in 27E1064
	socket.

Terminal assignment

Bottom view on solder pins

1 form A (NO)



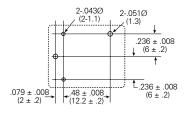
1 form C (CO)



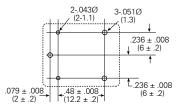
PCB layout

Bottom view on solder pins

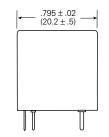
1 form A (NO)



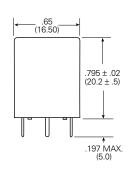
1 form C (CO)



Dimensions



Movable contact terminal: .012x.039 (0.3x1.0) Stationary contact terminals: .012x.039 (0.3x1.0) Coil terminals: .022x.022 (.56x.56)





Miniature PCB Relay T7C (Continued)

Product code structure	Typical product code	T7C	V	5	D	2	-24
Type T7C Miniature PCB Relay T7C							
Enclosure			_				
V Flux proof							
S Wash tight, immersion cleanable case with knock-off nib							
Contact arrangement				•			
1 1 form A (NO) contact 5 1 form C (CO) contact							
Coil input							
D DC coil							
Contact material						•	
Blank AgCdO 2 Ag							
Coil voltage Coil code: please refer to coil versions table (e.g. 05=5VDC)							-

Other types on request

Product code	Enclosure	Cont.arrangement	Coil input	Contact material	Coil voltage	Part number
T7CS1D-05	Wash tight	1 form A (NO)	DC coil	AgCdO	5VDC	1393190-7
T7CS1D-12	ŭ	` ′		Ĭ	12VDC	1-1393190-0
T7CS1D-24					24VDC	1-1393190-2
T7CS1D2-05				Ag	5VDC	1-1393190-4
T7CS1D2-09					9VDC	1-1440006-1
T7CS1D2-12					12VDC	1-1393190-5
T7CS1D2-24					24VDC	1-1393190-6
T7CS5D-05		1 form C (CO)		AgCdO	5VDC	1-1393190-8
T7CS5D-09		` ′			9VDC	2-1393190-0
T7CS5D-12					12VDC	2-1393190-2
T7CS5D-24					24VDC	2-1393190-8
T7CS5D-48					48VDC	3-1393190-1
T7CV1D-24	Flux proof	1 form A (NO)			24VDC	4-1393190-3
T7CV5D-05	•	1 form C (CO)			5VDC	4-1393190-6
T7CV5D-06		\ /			6VDC	4-1393190-7
T7CV5D-12					12VDC	5-1393190-3
T7CV5D-24					24VDC	6-1393190-0