

Miniature PCB Relay T77

- 3 to 10A rating
- **■** Small size
- Creepage spacings of 6.5mm between coil and contacts
- 4,000Vrms coil to contact dielectric strength
- **■** UL Class F approved insulation system

Typical applications Appliances, HVAC, industrial control





Approvals
VDE 40010327, UL E29244
Technical data of approved types on request

Contact D	lata.		
Contact arrai		1 form A,	1 NO
Rated voltage		30VDC, 25	
Max. switchir		30VDC, 27	
Rated curren	t	3 to 10	A
Contact mate	erial	3A type:	Ag
		10A type: A	.gCdO
Min. recomm	ended contact load	100mA at	5VDC
Frequency of	operation	360 ops	./h
Operate/relea	ase time max.	10ms/4i	ms
Electrical end	durance		
3A type	3A, 250VAC res., -30°0	C to +55°C	100x10 ³ ops.
5A type	5A, 250VAC res., -30°0	C to +40°C	100x10 ³ ops.
	5A, 250VAC res, -30°C	to +85°C	10x10 ³ ops.
10A type	10A, 250VAC res., -30	°C to +55°C	100x10 ³ ops.
	10A, 250VAC res., -30	°C to +85°C	10x10 ³ ops.
Contact ratin	gs	3A type: 3A 2	250VAC
		5A type: 5A 2	250VAC

Coil Data		
Coil voltage range	5 to 48VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL	Class E, F	

Coil vers	sions, DC co	il, sensitive t	ype, 200mW	•	
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
003	3	2.25	0.15	45	200
005	5	3.75	0.25	125	200
006	6	4.5	0.3	180	200
009	9	6.75	0.45	405	200
012	12	9	0.6	720	200
024	24	18	1.2	2880	200
048	48	36	2.4	11520	200
A II C					0000

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

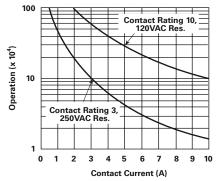
Co	ilν	ersions,	D	C	coil,	star	ndard	type,	450mW	

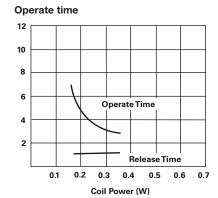
0011 1010	, = = = =	ii, otairaara t	, po, .oo		
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%$	mW
003	3	2.1	0.15	20	450
005	5	3.5	0.25	55.6	450
006	6	4.2	0.3	80	450
009	9	6.3	0.45	180	450
012	12	8.4	0.6	320	450
024	24	16.8	1.2	1280	450
048	48	33.6	2.4	5120	450

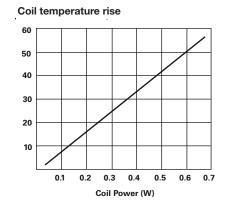
All figures are given for coil without pre-energization, at ambient temperature +23°C

Electrical endurance

Mechanical endurance, DC coil







10A type: 10A 250VAC

10x10⁶ operations



Miniature PCB Relay T77 (Continued)

750Vrms	
4000Vrms	
>3.2/6.4mm	
	4000Vrms

Other Data

Packaging/unit

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature 3A type: -30°C to +105°C 5A and 10A type: -30°C to +85°C

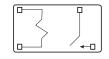
Category of environmental protection

IEC 61810 RTII - dust protected RTIII - wash tight Shock resistance (functional) 10g Shock resistance (destructive) 100g Weight 9g Resistance to soldering heat THT IEC 60068-2-20 RTII: 270°C/10s RTIII: 260°C/5s

Tray/100, carton box/1000

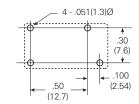
Terminal assignment

Bottom view on solder pins

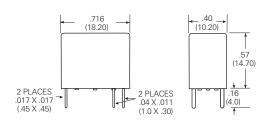


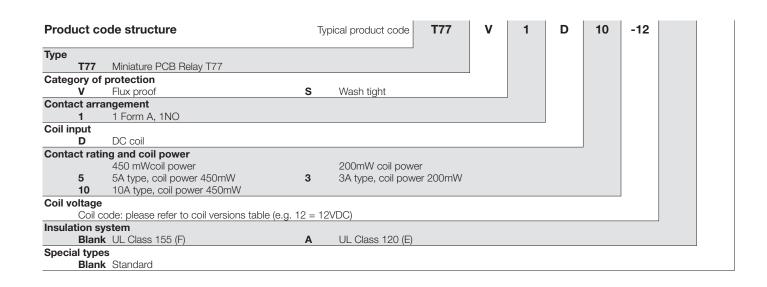
PCB layout

Bottom view on solder pins



Dimensions





Product code	Enclosure	Contact rating	Cont.material	Coil voltage	Coil power	Part number
T77S1D3-05	Wash tight	3A	Ag	5VDC	200mW	1-1393194-3
T77V1D3-12	Flux proof	3A	Ag	12VDC	200mW	2-1393194-6
T77S1D3-12	Wash tight	3A	Ag	12VDC	200mW	1-1393194-5
T77V1D3-24	Flux proof	3A	Ag	24VDC	200mW	2-1393194-7
T77S1D3-24	Wash tight	3A	Ag	24VDC	200mW	1-1393194-6
T77V1D10-05	Flux proof	10A	AgCdO	5VDC	450mW	1-1393194-8
T77S1D10-05	Wash tight	10A	AgCdO	5VDC	450mW	1393194-7
T77V1D10-09	Flux proof	10A	AgCdO	9VDC	450mW	1440005-1
T77S1D10-03	Wash tight	10A	AgCdO	3VDC	450mW	1393194-6
T77V1D10-12	Flux proof	10A	AgCdO	12VDC	450mW	1-1393194-9
T77S1D10-12	Wash tight	10A	AgCdO	12VDC	450mW	1393194-9
T77V1D10-24	Flux proof	10A	AgCdO	24VDC	450mW	2-1393194-1
T77S1D10-24	Wash tight	10A	AqCdO	24VDC	450mW	1-1393194-0

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for General Purpose Relays category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below:

PCN-105D3MH,000 59641F200 LY1SAC110120 5X827E 5X837F 5X840F 5X842F 5X848E LY2N-AC120 LY2S-AC220/240 LY2-US-AC120 LY3-US-AC120 LY4F-UA-DC12 LY4F-UA-DC24 LY4F-US-AC120 LY4F-US-AC240 LY4F-US-DC24 LY4F-VD-AC110 LYQ20DC12 M115C60 M115N010 M115N0150 6031007G 603-12D 61211T0B4 61212T400 61222Q400 61243B600 61243C500 61243Q400 61311BOA2 61311BOA6 61311BOA8 61311COA2 61311COA1 61311COA6 61311F0A2 61311QOA1 61311QOA4 61311T0B6 61311TOA6 61311TOA6 61311TOB3 61311TOB4 61311U0A6 61312Q600 61312T400 61312T600 61313U200 61313U400