

Coil Data	
Coil voltage range	5 to 110VDC; 12 to 240VAC
Max. coil power	1.7W; 4.0VA
Max. coil temperature	155°C
Coil insulation system according UL	Class F

Coil versions, DC coil (D type)										
Coil	Rated	Operate	Release	Coil	Rated coil					
code voltage ²⁾		voltage ³⁾	voltage	resistance	power					
	VDC	VDC	VDC	$\Omega \pm 10\%$	W					
5	5	3.75	0.6	14.9						
6	6	4.5	0.6	22						
9	9	6.75	0.9	48						
12 12		9	1.2	86						
18 18 1		13.5	1.8	197	1.7W/					
22 22		16.5	2.2	294	Min. 0.41W					
24 24		18	2.4	350	hold					
36	36	27	3.6	767						
48	48	36	4.8	1390						
110	110	82.5	11	7255						
120	120	90	12	8514						

2) For T92H type, after the energization time of 100ms with rated voltage, the coil requires a reduction of the coil voltage to 50% of rated voltage.

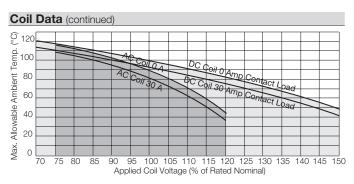
3) For Anti-explosion sealed type, the operate voltage is 80% of the rated coil voltage.

Coil versions, AC coil (A type)

con versions, Ac con (A type)									
Coil	Rated	Frequency	Operate	Release	Coil	Rated coil			
code	voltage		voltage	voltage	resistance	power			
	VAC	Hz	VAC, 60Hz	VAC, 60Hz	2 Ω±10%	VA			
12	12	60	9.6	1.2	9.1	4			
24	24	60	19.2	2.4	36.6	4			
110	110	60	88	11	793	4			
120	110/120	50/60	96	12	950	4			
208	208	60	166.4	20.8	2841	4			
240	220/240	50/60	192	24	3800	4			
277	250/277	50/60	221.6	27 7	5485	4			

Coil versions, AC coil (F type)										
	Coil	Rated	Frequency	Operate	Release	Coil	Rated coil			
	code	voltage		voltage	voltage	resistance	power			
		VAC	Hz	VAC, 60Hz	VAC, 60Hz	Ω±10%	VA			
	12	12	50	9.6	1.2	11.2	3.5			
	24	24	50	19.2	2.4	44.4	3.5			
	48	48	50	38.4	4.8	179.2	3.5			
	240	240	50	192	24	4355	3.5			

All figures are given for coil without preenergization, at ambient temperature +23°C. For A type, 110V/120V, 50/60Hz. Signify 50Hz Operation at Nominal 110V, 60 Hz Operation at Nominal 120V.



Note: This chart only apply for T92 standard type. For coil data of T92 Antiexplosion sealed type and T92H type, please contact TE engineering.

Insulation Data

Initial dielectric strength	
between open contacts	1500V _{rms}
between contact and coil	4000V _{rms}
between adjacent contact	2000V _{rms}
Initial surge withstand voltage	
between contact and coil	8kV
Initial insulation resistance (@500VDC)	
between insulated elements	1x10 ⁹ Ω
Clearance/creepage	
between contact and coil	8mm clearance/9.5mm creepage

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at

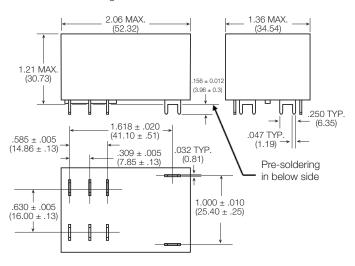
www.te.com/ct	<u>istomersupport/ronssupportcente</u>
Ambient temperature	
DC coil	-55°C to 85°C
AC coil	-55°C to 65°C
Category of environmental protection	
IEC 61810	RTI - dust protected,
	RTII - flux proof, RTIII - wash tigh
Vibration resistance (functional)	1.65mm max amplitude, 10-55 H
Shock resistance (functional)	10G for 11msec

Shock resistance (destructive) 100G
Terminal type PCB / Quick Connect / Screw



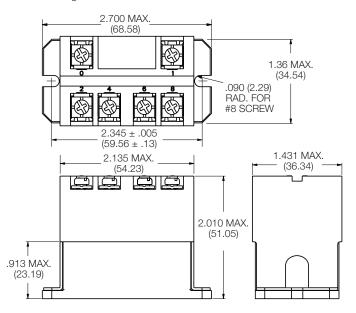
Dimensions

T92/T92H - Mounting and termination code 1



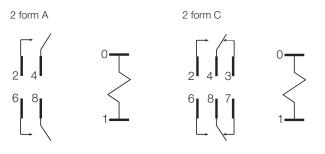
Note: Dimensions of the pins after tin soldering a) +0.3mm for the width and the thickness b) +1.0mm for the length

T92 - Mounting and termination code 5

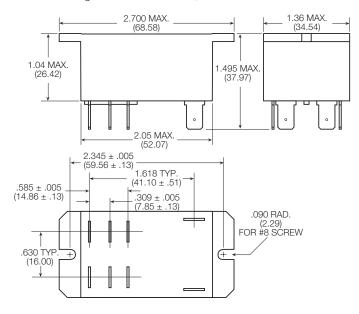


Terminal assignment

Bottom view on pins



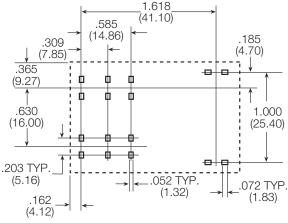
T92 - Mounting and termination code 2, 3 and 4



PCB layout

Bottom view on pins

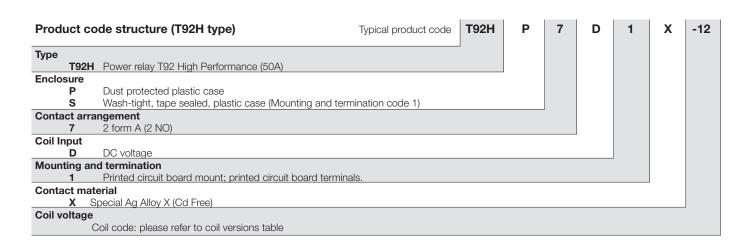
T92/T92H - Mounting and termination code 1



An alternate PC board layout utilizes .076 \pm .003 (1.93 \pm .076) diameter holes on the same center-to-center spacing shown above. Use of the rectangular holes is recommended for improved solderability.

Only necessary terminals are present on single throw models. Consequently, some holes will be unnecessary for single throw models.

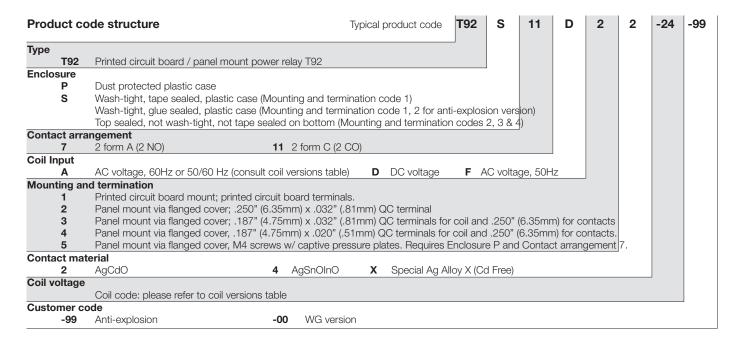




Product code	Enclosure	Contacts	Coil	Mounting	Contact Material	Coil	Part number
T92HP7D1X-12	Plastic dust cover	2 form A, 2 NO	DC	PCB terminals	Special Ag Alloy X (Cd Free)	12VDC	6-1423008-6
T92HP7D1X-24						24VDC	6-1423008-7
T92HP7D1X-48						48VDC	6-1423008-9

Note. This list represents the most common types and does not show all variants covered by this datasheet, other types on request.

Product code structure (T92 type)





Product Code	Enclosure	Contacts	Coil	Mounting	Contact Material	Coil	Part Number
T92P7A22-24	Plastic dust cover	2 form A, 2 NO	AC	Panel mount + quick connect	AgCdO	24 VAC	6-1393211-0
T92P7A22-120						120 VAC	5-1393211-7
T92P7A22-240						240 VAC	6-1393211-2
T92P7A22-277 T92P7A24-240					AgSnOlnO	277 VAC 240 VAC	6-1393211-3 3-1423008-3
T92P7A24-240				Panel mount + screw terminals	AgCdO	120 VAC	1423008-8
T92P7A52-120				Parier mount + screw terminals	Agedo	240 VAC	1-1423008-2
T92P7D12-12			DC	PCB terminals		12 VDC	6-1393211-5
T92P7D14-12			DO	1 OD torrilliaio	AgSnOlnO	12 VDC	2-1423008-1
T92P7D12-24					AgCdO	24 VDC	6-1393211-6
T92P7D22-12				Panel mount + quick connect	, igouo	12VDC	6-1393211-9
T92P7D22-24				·		24 VDC	7-1393211-1
T92P7D22-48						48 VDC	7-1393211-2
T92P7D24-12					AgSnOlnO	12VDC	2-1423008-2
T92P7D24-24						24 VDC	1423008-9
T92P7D42-24					AgCdO		7-1393211-5
T92P7D52-12				Panel mount + screw terminals		12 VDC	1-1423008-0
T92P7D52-24				202		24 VDC	1423967-1
T92P11A12-120		2 form C, 2 CO	AC	PCB terminals		120 VAC	3-1393211-8
T92P11A22-12				Panel mount + quick connect		12 VAC	3-1393211-9
T92P11A22-24						24 VAC 120 VAC	4-1393211-3
T92P11A22-120 T92P11A22-240						240 VAC	4-1393211-0 4-1393211-4
T92P11A22-240						277 VAC	4-1393211-4
T92P11A24-240					AgSnOlnO	240 VAC	3-1423008-7
T92P11A42-120					AgCdO	120VAC	4-1393211-8
T92P11D12-12			DC	PCB terminals	7 (godo	12 VDC	5-1393211-0
T92P11D22-12			50	Panel mount + quick connect		12 480	5-1393211-3
T92P11D22-24				- Carrottinositi - Carrottinositi		24 VDC	5-1393211-4
T92P11D24-12					AgSnOlnO	12 VDC	3-1423008-5
T92P11D24-24						24 VDC	3-1423008-6
T92S7A12-24	Wash tight	2 form A, 2 NO	AC	PCB terminals	AgCdO	24 VAC	9-1393211-8
T92S7A12-120						120 VAC	9-1393211-7
T92S7A12-240						240 VAC	9-1393211-9
T92S7A22-24	Top sealed			Panel mount + quick connect		24 VAC	1393212-4
T92S7A22-120						120 VAC	1393212-2
T92S7A22-240	144 1 11 1 1			505.		240 VAC	1393212-5
T92S7D12-12	Wash tight		DC	PCB terminals		12 VDC	1393212-8
T92S7D12-24						24 VDC	1-1393212-0
T92S7D12-48 T92S7D12-110						48 VDC 110 VDC	1-1393212-1
T92S7D12-110					AgSnOlnO	12 VDC	1-1423008-6
T92S7D14-12					Agonomo	24 VDC	1-1423008-8
T92S7D14 24	Top sealed			Panel mount + quick connect	AgCdO	12 VDC	1-1393212-4
T92S7D22-18	100 000.00			r and meant r quiet connect	, igouo	18 VDC	1-1393212-5
T92S7D22-24						24 VDC	1-1393212-7
T92S7D22-110						110 VDC	1-1393212-3
T92S11A12-24	Wash tight	2 form C, 2 CO	AC	PCB terminals		24 VAC	8-1393211-1
T92S11A12-120	_					120 VAC	8-1393211-0
T92S11A12-240						240 VAC	8-1393211-2
T92S11A22-12	Top sealed			Panel mount + quick connect		12 VAC	8-1393211-3
T92S11A22-24						24 VAC	8-1393211-6
T92S11A22-120						120 VAC	8-1393211-4
T92S11A22-240						240 VAC	8-1393211-7
T92S11D12-12	Wash tight		DC	PCB terminals		12 VDC	8-1393211-9
T92S11D12-24						24 VDC	9-1393211-0
T92S11D12-48						48 VDC	9-1393211-1
T92S11D12-110	T					110 VDC	8-1393211-8
T92S11D22-12	Top sealed			Panel mount + quick connect		12 VDC	9-1393211-3
T92S11D22-24	Digatio di est est	0 forms A 0 NO	D0	DOD to meeting also	A = 0 = 10	24 VDC	9-1393211-4
T92P7D12-12-99	Plastic dust cover	2 form A, 2 NO	DC	PCB terminals	AgCdO	12VDC	2-2071223-3
T92S7D1X-12-99	Wash tight			Panel mount + quick connect	Special Ag Alloy X (Cd Free)	12VDC 12VDC	6-1423008-1
T92S7D2X-12-99 T92S7A22-240-00	Top Sealed(WG)		AC	r anei mourit + quick connect	AgCdO	240VAC	6-1423008-2 2-2071223-4
T92S7D12-12-00	Wash tight (WG)		DC	PCB terminals	Agouo	12VDC	1-2071223-7
10201012-12-00	_ vvasii ligiil (vva)		טט	1 OD GITIIIIais		12100	1 201 1220-1

Note. This list represents the most common types and does not show all variants covered by this datasheet, other types on request.