

T92S11D12-24 Product Details



T92S11D12-24

TE Internal Number: 9-1393211-0



Industrial Relays (General Purpose)

Converted to EU RoHS but not ELV Compliant

(Statement of Compliance)

Product Highlights:

- T92 Series
- Contact Current Class = 20A to 30A Class, Greater Than 16A
- Contact Rated Current = 30 A
- Terminal Type = PCB-THT
- Contact Arrangement = 2 Form C (CO)

Documentation & Additional Information

Product Drawings:

Catalog Pages/Data Sheets:

T92 Two-Pole, 30 Amp, PC Board or Panel Mount Relay (PDF, English)

Product Specifications:

None Available

Application Specifications:

None Available

Instruction Sheets:

None Available

CAD Files: (CAD Format & Compression Information)

- 2D Drawing (DXF, Version D) • 3D Model (IGES, Version D)
- 3D Model (STEP, Version D)

Additional Information:

Additional Product Images:

- Schematic
- PCB Lavout
- · Wiring Diagram

Related Products:

Tooling

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:

- Series = T92
- Terminal Type = PCB-THT

Electrical Characteristics:

- Contact Current Class = 20A to 30A Class, Greater Than 16A
- Contact Rated Current (A) = 30
- Contact Limiting Continuous Current (A) = 30
- Contact Limiting Making Current (A) = 30
- Contact Limiting Breaking Current (A) = 30
- Insulation Initial Dielectric Between Coil/Contact Class = 3500V to 4000V Class
- Insulation Initial Dielectric Between Open Contacts (V rms) = 1500
- Insulation Initial Dielectric Between Contacts and Coil (V rms) = 4000
- Contact Rated Voltage (VAC) = 277
- Contact Switching Voltage Max. (VAC) = 600
- Contact Limiting Short-Time Current (A) = 30
- Contact Switching Recommended Load, Min. = 500mA at 12V
- Coil Rated Voltage (VDC) = 24
- Coil Resistance (Ω) = 350
- Coil Rated Power, DC (mW) = 1700
- Coil Rated Power Class = >1.5W Class
- Insulation Initial Dielectric Between Adjacent Contacts (V rms) = 2000
- Insulation Initial Insulation Resistance (M Ω) = 1000000
- Insulation Creepage Class = >8mm Class
- Insulation Clearance Class = 5mm to 8mm Class
- Insulation Special Features = 6000V Initial Surge Withstand Voltage between Contacts and Coil

Dimensions:

Mechanical - Length Class = 50mm to 60mm Class

- Mount Type = PCB
- Weight (g [oz]) = 86.00 [3.034]

Contact Features:

- Contact Material = AgCdO
- Contact Number of Poles = 2

Configuration Features:

- Contact Arrangement = 2 Form C (CO)
- Coil Magnetic System = Monostable, DC
- Coil Special Features = UL Coil Insulation Class F

Industry Standards:

- RoHS/ELV Compliance = RoHS/Not ELV Compliant
- Lead Free Solder Processes = Wave solder capable to 240°C, Wave solder capable to 260°C
- ${\sf RoHS/ELV}\ {\sf Compliance}\ {\sf History} = {\sf Converted}\ {\sf to}\ {\sf comply}\ {\sf with}$ RoHS not ELV directives
- Approved/Registered Standards = UL, CSA, VDE

Environmental:

- Environmental Category of Protection = RTIII
- Environmental Ambient Temperature, Max. (°C [°F]) = 65 [149]
- Environmental Ambient Temperature Class = 50°C to 70°C Class

Packaging Features:

Packaging Method = Tray

Other:

Brand = Potter & Brumfield

- Length (mm [in]) = 52.30 [2.059]
- Mechanical Width Class = 30mm to 40mm Class
- Width (mm [in]) = 34.50 [1.359]
- Mechanical Height Class = 30mm to 40mm Class
- Height (mm [in]) = 30.70 [1.209]
- Insulation Clearance Between Contact and Coil (mm [in]) = 8 [0.315]
- Insulation Creepage Between Contact and Coil (mm [in]) = 9.5 [0.374]

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T92 Series Two-pole 30A PCB or Panel Mount Relay

- 40A, 2 form A (NO) and 2 form C (CO) switching capability
- Designed to control compressor loads to 3.5 tons, 110LRA / 25.3FLA
- Meets requirements of UL 508 and UL 873 spacings 8mm through air, 9.5mm over surface
- Meets requirements of VDE 8mm spacing, 4kV dielectric coil-tocontact
- Meets requirements of UL Class F construction
- UL approved for 600VAC switching (1.5HP)
- New screw terminal version (consult factory for availability, ratings)

Typical applications

HVAC, residential / commercial appliances, industrial controls.



UL E58304 (Recognized and Listed); CSA LR48471; VDE 40019600 Technical data of approved types on request.

Contact Data						
Contact arrangement	2 form A (NO), 2 form C (CO)					
Rated voltage	277VAC					
Max. switching voltage	600VAC					
Rated current	30A NO; 3A NC					
Limiting continuous current	40A NO; 3A NC					
Limiting making current	40A NO; 3A NC					
Limiting breaking current	40A NO; 3A NC					
Contact material	AgSnOlnO, AgCdO					
Min. recommended contact load	500ma (NO)/ 100ma (NC), 12VAC					
Frequency of operation, with load	360hr					
Operate/release time max., including bounce 25/25ms						

Contact ratings	s 1)
	$\overline{}$

Type	Load	Cycles
UL508		
AgCdO		
NO	40A, 277VAC, resistive	6x10 ³
NO	30A, 120/277VAC, resistive	100x10 ³
NO	10A, 600VAC, general purpose	100x10 ³
NO	1HP, 120VAC	100x10 ³
NO	3HP, 240VAC	1x10 ³
NO	1.5HP, 480 or 600VAC	100x10 ³
NO	110LRA/25.3FLA, 240VAC (DC coil only)	100x10 ³
NO	60LRA/14FLA, 240VAC (AC coil only)	100x10 ³
NO	3A, 240VAC, pilot duty	100x10 ³
NO	20A, 28VDC, resistive	100x10 ³
NO	TV10, 120VAC	100x10 ³
NC	3A, 277VAC	100x10 ³
NC	2A, 480VAC	100x10 ³
NC	1A, 600VAC	100x10 ³
AgSnOlnO		
NO	30A, 120/277VAC, resistive (DC coil only)	200x10 ³
NO	30A, 120/277VAC, resistive (AC coil only)	100x10 ³
NO	20A, 480VAC, resistive	100x10 ³
NO	1.5HP, 120VAC, 2 pole making/breaking (Fig.1)	100x10 ³
NO	3HP, 240VAC, 3 phase (DC coil only)	100x10 ³
NO	3HP, 480VAC, 3 phase (DC coil only)	100x10 ³
NO	2HP, 600VAC, 3 phase (DC coil only)	100x10 ³
VDE		
AgCdO, flange	,	
NO	20A, 400VAC	100x10 ³
NC	3A, 400VAC	$30x10^3$
CO	20A NO / 3A NC, 400VAC	$30x10^3$
AgCdO, PC mo		
NO	30A, 400VAC	100x10 ³
NC	3A, 400VAC	30x10 ³
CO	30A NO / 3A NC, 400VAC	$30x10^3$











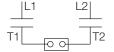
Contact ratings 1) (continued)

ARI 780-86 Endurance Test (section 6.6): HVAC Definite Purpose Contactor Standard

Normally Open Contacts

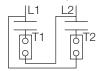
Single Phase/Two Pole (Both poles together switching a single load) 110 LRA, 25.3 FLA, 200K operations (DC Coil)

Figure 1



Single Phase Per Pole (Single load per pole) 110 LRA, 18 FLA, 200K operations (DC Coil). 60 LRA, 14 FLA, 200K operations (AC Coil).





1) Contact ratings at 25°C (unless otherwise noted) with relay properly vented. FLA, LRA ratings are compatible with 3.5 ton compressor applications.

Mechanical endurance

10x10⁶ ops.

Coil Da	ta					
Coil volta	ge range		5 to 110VDC; 12 to 240VAC			
Max. coil	power		1	.7W; 4.0VA		
Max. coil	temperature			155°C	_	
Coil insul	ation system :	according UL		Class F		
Coil vers	sions, DC co	il				
Coil	Rated	Operate	Release	Coil	Rated coil	
code voltage		voltage	voltage	resistance	power	
	VDC VDC		VDC	Ω±10%	W	
6	6 6 4.5		0.6	22	1.7	
9 9		6.75	0.9	48	1.7	
12 12 9		9	1.2	86	1.7	
18	18 18 13.5		1.8	197	1.7	
24	24 24 18		2.4	350	1.7	
48	18 48 36		4.8	1390	1.7	
110	110 110 82.5		11	7255	1.7	
Coil vers	sions, AC co	il				

Coil	Rated	Frequency	Operate	Release	Coil	Rated coil
code	ode voltage		voltage	voltage	resistance	power
	VAC	Hz	VAC, 60Hz	VAC, 60Hz	Ω±10%	VA
12	12	60	9.6	1.2	9.1	4
24	24	60	19.2	2.4	36.6	4
120	110/120	50/60	96	12	950	4
240	220/240	50/60	192	24	3800	4
277	250/277	50/60	222	28	5485	4

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



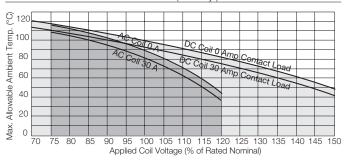
T92 Series Two-pole 30A PCB or Panel Mount Relay (Continued)

Coil Data (continued)

Ambient temperature vs. coil voltage

Assumptions:

- 1. Thermal resistance = 35°C per Watt (DC only.)
- 2. Still air.
- 3. Nominal coil resistance.
- 4. Max. mean coil temperature = 155°C (change of resistance method).
- 5. Coil temperature rise due to load = 6.3°C @ 30 amps.
- 6. Curves are based on 1.7W at 25°C (DC only.).



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	6kV
Initial insulation resistance	
between insulated elements	1x10 ⁹ Ω
Clearance/creepage	
between contact and coil	8mm clearance/9.5mm creepage

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

DC coil -55°C to 85°C AC coil -55°C to 65°C

Category of environmental protection

IEC 61810 RTI - dust protected,

Vibration resistance (functional)
Shock resistance (functional)
Shock resistance (destructive)
Terminal type
Weight
Resistance to soldering heat THT

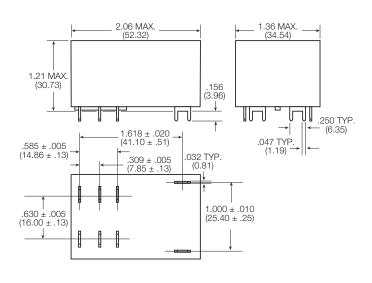
IEC 60068-2-20

RTIII - flux proof, RTIII - wash tight
1.65mm max excursions, 10-55 Hz
10g for 11msec
100g
PCB-tht or quick connect
86g
Resistance to soldering heat THT

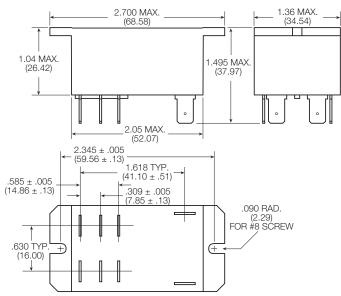
tray/30 pcs., box/120 pcs.

Dimensions

T92 - Mounting and termination code 1



T92 - Mounting and termination code 2, 3 and 4

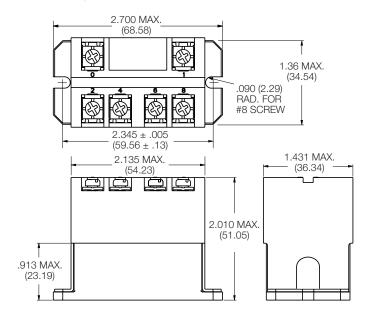




T92 Series Two-pole 30A PCB or Panel Mount Relay (Continued)

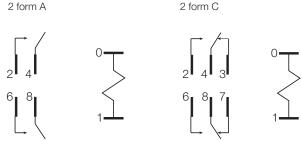
Dimensions

T92 - Mounting and termination code 5



Terminal assignment

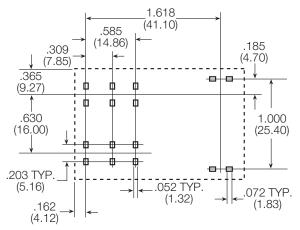
Bottom view on pins



PCB layout

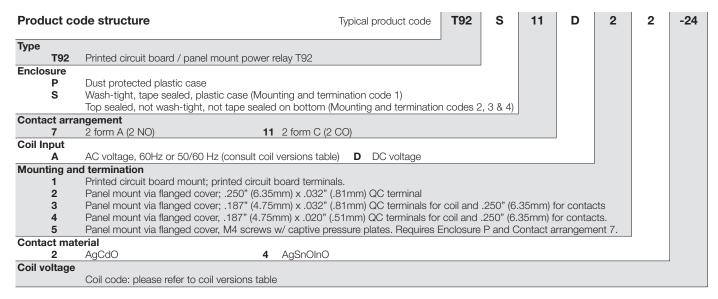
Bottom view on pins

T92 - 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.





T92 Series Two-pole 30A PCB or Panel Mount Relay (Continued)

T92FP7422-24	Product Code	Enclosure	Contacts	Coil	Mounting	Contact Material	Coil	Part Number
1929P7A22-247	T92P7A22-24	Plastic dust cover	2 form A, 2 NO	AC	Panel mount + quick connect	AgCdO		6-1393211-0
1922P7A82-227	T92P7A22-120							5-1393211-7
1926/1924-240 Panel mount + screw terminals AgCidO 240 WAC 1-1423008-8 1926/1921-12 DC POB terminals AgCidO 1-1423008-8 1926/1921-12 DC POB terminals AgCidO 1-1423008-8 1926/1921-12 DC POB terminals AgCidO 1-1423008-8 1926/1921-12 Panel mount + quick connect 1920	T92P7A22-240						240 VAC	6-1393211-2
Panel mount + screw terminals	T92P7A22-277						277 VAC	6-1393211-3
1929P7142-12 DC	T92P7A24-240					AgSnOlnO	240 VAC	3-1423008-3
1926/1012-12 DC PCB terminals 12 VDC 6-1393211-6 1392/171022-14 Panel mount + quick connect 12 VDC 6-1393211-6 1392/171022-14 Panel mount + quick connect 12 VDC 6-1393211-9 12 VDC 7-1393211-1 12 VDC 7-1393211-1 12 VDC 7-1393211-1 12 VDC 1-1433011-2 12 VDC 1-1433011-2 12 VDC 1-1433011-2 12 VDC 1-143300-9 12 VDC 1-143301-9 12 VDC 1-143301-9 12 VDC 1-143301-9 12 VDC 1-143300-9 12 VDC 1-143301-9 12 VDC 1-133311-9 1-133311-9 12 VDC 1-133311-9 1-133311-9 1-133311-9 1-133311-9 1-133311-9 1-133311-9 1-133311-9 1-133311-9 1-133311-9 1-133311-9 1-133311-9 1-133311-9 1-133311-9 1-1333111-9 1-133311-9 1-133311-9 1-133311-9 1-133311-9	T92P7A52-120				Panel mount + screw terminals	AgCdO	120 VAC	1423008-8
Panel mount + quick connect	T92P7A52-240						240 VAC	1-1423008-2
Panel mount + quick connect 12/D/C 6-1898/211-9 1392/P102-24 24 VDC 7-1898/211-9 1492/D2-48 24 VDC 7-1898/211-9 1492/D2-24 1492/D2-2	T92P7D12-12			DC	PCB terminals		12 VDC	6-1393211-5
1929P1022-24 1939P1024-12 1939P1024-12 1939P1024-12 1939P1024-12 1939P1024-12 1939P104-12 1939P104	T92P7D12-24						24 VDC	6-1393211-6
1982P7D24-12 1982	T92P7D22-12				Panel mount + quick connect		12VDC	6-1393211-9
1982P7D24-12 1982	T92P7D22-24				·		24 VDC	7-1393211-1
T92PTD42-12	T92P7D22-48						48 VDC	7-1393211-2
T99P7D4-24	T92P7D24-12					AgSnOlnO	12VDC	
T92PT1042-24 Panel mount + screw terminals AgCdO 7-1393211-5 T92PT1052-12 Panel mount + screw terminals 12 VDC 1-1423008-0 T92PT1142-120 2 form C, 2 CO AC POB terminals 120 VAC 3-1393211-3 T92PT11422-120 Panel mount + quick connect 12 VAC 3-1393211-3 T92PT11422-120 24 VAC 4-1393211-3 T92PT11422-120 240 VAC 4-1393211-1 T92PT11422-277 AgSnOinO 240 VAC 4-1393211-1 T92PT11424-240 Panel mount + quick connect AgSnOinO 240 VAC 4-1393211-1 T92PT11242-120 AgSnOinO 240 VAC 3-1323211-6 T92PT11242-120 Panel mount + quick connect 24 VDC 5-1393211-3 T92PT11242-120 AgSnOinO 12 VDC 5-1393211-3 T92PT11242-120 AgSnOinO 24 VDC 3-1323311-3 T92ST3742-120 AgSnOinO 24 VDC 3-1323311-3 T92ST3742-120 AgSnOinO 24 VDC 3-1323211-3 T92ST3742-120 AgSnOinO 24 VDC 3-1323211-3 T92ST3742-120 AgSnOinO 24 VDC 1-1323211-3 T92ST3742-120 AgSnOinO 24 VDC 1-1323211-3 T92ST3742-120 AgSnOinO 24 VDC 1-1323211-3 T92ST372-10 AgSnOinO 24 VDC 1-1323212-3 T92ST372-10 AgSnOinO 24 VDC 1-1323212-3 T92ST372-10 AgSnOinO 24 VDC 1-1323212-3 T92ST312-10 AgSnOinO 24 VDC 1-1323212-3 T92ST312-120 AgSnOinO 24 VDC 1-1323212-3 T92ST312-24 AgSnOinO 24 VDC 1-1323212-3 T92ST312-24 AgSnOinO 24 VDC 1-1323212-3 T	T92P7D24-24					Ü		
Panel mount + screw terminals 12 VDC 1-1423008-0 1-1423008-0 1-1423008-0 1-1423008-0 1-1423008-0 1-1423008-0 1-1423008-1 1-1423008-1 1-1423008-1 1-1423008-1 1-142308-1 1-14						AaCdO		
T92PT1A12-120					Panel mount + screw terminals	3 - 1 - 1	12 VDC	
192P11A12-120								
Panel mount + quick connect 12 VAC 3-1393211-9 12 VBC 3-1393211-1 12 VBC 3-1423008-7 12 VBC 3-1423008-7 12 VBC 3-1423008-7 12 VBC 3-1393211-1 12 VBC 3-1423008-1 12 VBC 3-142308-1 12 VBC 3-1393211-1 12 VBC 3-1393211-			2 form C, 2 CO	AC	PCB terminals			
192911A22-24			2 101111 0, 2 00	, .0				
T92P11A22-120					T directification in quiet definited			
TagP11A22-240 Papel Haze-240 Papel								
T92P11A22-270								
T92P11A42-120								
T92P11012-12 DC PCB terminals T20VAC A-1393211-8 T92P11D12-12 Panel mount + quick connect Panel mount + quick connect T20VAC A-1393211-3 T92P11D2-12 Panel mount + quick connect Panel mount + quick connect T20VAC A-1393211-3 T92P11D2-12 Panel mount + quick connect						∆aSnOlnO		
Taylor T								
Panel mount + quick connect S-1333211-3				DC	PCB terminals	Agouo		
T92P11D22-24 T92P11D24-12 AgSnOlnO				DO			12 000	
T92P11D24-12 T92P11D24-24 T92S7A12-24 Wash tight 2 form A, 2 NO AC PCB terminals AgCdO 24 VAC 9-1393211-8 120 VAC 9-1393211-8 120 VAC 9-1393211-9 120 VAC 1393212-4 120 VAC 1393212-4 120 VAC 1393212-5 120 VAC 1393212-6 120 VAC 1393212-7 120 VAC 1393212-3 120 VAC 1393211-3 130 VAC 130 VAC					Tarier mount + quick connect		24 \/DC	
T92P11D24-24						AgenOlnO		
T92S7A12-24						Agonomo		
T9287A12-120		Mach tight	O form A O NO	۸.	DCP terminals	AaCdO		
T92S7A12-240 Panel mount + quick connect 24 VAC 1393211-9 120 VAC 1393212-4 120 VAC 1393212-4 120 VAC 1393212-5 120 VAC 1393212-6 120 VAC 1393212-7 120 VAC 1393211-7 120 VAC 130 VA		vvasirtigiti	2 IOIIII A, 2 INO	AC	POB terminais	AgCaC		
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T92S7A22-240		Top sealed			Pariel Mount + quick connect			
T92S7D12-12 Wash tight								
T92S7D12-24		\ \ \ /= = = +! = =+		DO.	DOD to made also			
T92S7D12-48		vvasn tignt		DC	PCB terminals			
T9287D12-110								
T92S7D14-24 Top sealed Panel mount + quick connect AgCdO 12 VDC 1-1423008-8								
Tight Top sealed Panel mount + quick connect AgCdO 12 VDC 1-1393212-4						A =: O == O == O		
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T92S11A12-24 Wash tight 2 form C, 2 CO AC PCB terminals 24 VAC 8-1393211-1 T92S11A12-120 120 VAC 8-1393211-0 240 VAC 8-1393211-2 T92S11A22-12 Top sealed Panel mount + quick connect 12 VAC 8-1393211-3 T92S11A22-24 24 VAC 8-1393211-6 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 9-1393211-0 48 VDC 9-1393211-1 T92S11D12-110 110 VDC 8-1393211-8 12 VDC 9-1393211-8 T92S11D22-12 Top sealed Panel mount + quick connect 12 VDC 9-1393211-3								
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