Kaimeite Electronic (HK) Co., Limited
First choice One-Stop Mixed Distributor for World-Class manufacturer Email: info@kaimte.com Website: www.kaimte.com

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4-1393211-6

**TE Connectivity** 

Power Relay 277VAC 30A DPDT(68.58x34.54x37.97)mm Flange

Any questions, please feel free to contact us. info@kaimte.com



# 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.

# **Approvals**

UL E22575 (Recognized and Listed); CSA LR48471; VDE 40019600 Technical data of approved types on request.

Contact Data							
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							
Initial contact resistance	< 100 mΩ at 6VDC 1A						

Contact ratings 1)
--------------------

Туре	Load	Cycles			
UL508					
AgCdO					
NO	40A, 277VAC, resistive	6x10 <sup>3</sup>			
NO	30A, 120/277VAC, resistive	100x10 <sup>3</sup>			
NO	10A, 600VAC, general purpose	100x10 <sup>3</sup>			
NO	1HP, 120VAC	100x10 <sup>3</sup>			
NO	3HP, 240VAC	1x10 <sup>3</sup>			
NO	1.5HP, 480 or 600VAC	100x10 <sup>3</sup>			
NO	110LRA/25.3FLA, 240VAC (DC coil only)	100x10 <sup>3</sup>			
NO	60LRA/14FLA, 240VAC (AC coil only)	100x10 <sup>3</sup>			
NO	3A, 240VAC, pilot duty	100x10 <sup>3</sup>			
NO	20A, 28VDC, resistive	100x10 <sup>3</sup>			
NO	TV10, 120VAC	100x10 <sup>3</sup>			
NC	3A, 277VAC	100x10 <sup>3</sup>			
NC	2A, 480VAC	100x10 <sup>3</sup>			
NC	1A, 600VAC	100x10 <sup>3</sup>			
AgSnOlnO					
NO	40A, 240VAC, resistive 85°C	50x10 <sup>3</sup>			
NO	30A, 120/277VAC, resistive (DC coil only)	200x10 <sup>3</sup>			
NO	30A, 120/277VAC, resistive (AC coil only)	100x10 <sup>3</sup>			
NO	20A, 480VAC, resistive	100x10 <sup>3</sup>			
NO	1.5HP, 120VAC, 2 pole making/breaking (Fig.1)	100x10 <sup>3</sup>			
NO	3HP, 240VAC, 3 phase (DC coil only)	100x10 <sup>3</sup>			
NO	3HP, 480VAC, 3 phase (DC coil only)	100x10 <sup>3</sup>			
NO	2HP, 600VAC, 3 phase (DC coil only)	100x10 <sup>3</sup>			
VDE					
AgCdO, flange					
NO	20A, 400VAC	100x10 <sup>3</sup>			
NC	3A, 400VAC	30x10 <sup>3</sup>			
CO	20A NO / 3A NC, 400VAC	$30x10^{3}$			
AgCdO, PC mount relays					
NO	30A, 400VAC	100x10 <sup>3</sup>			
NC	3A, 400VAC	30x10 <sup>3</sup>			
CO	30A NO / 3A NC, 400VAC	$30x10^3$			











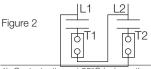
Contact ratings 1) (continued)

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).



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 10x10<sup>6</sup> ops.

Coil Da	ata						
Coil volta	age range		5 to 110VDC; 12 to 240VAC				
Max. coi	l power		1	.7W; 4.0VA			
Max. coi	I temperature		155°C				
Coil insu	lation system	according UL	Class F				
Coil ver	sions, DC co	il (D type)					
Coil	Rated	Operate	Release	Coil	Rated coil		
code	voltage	voltage	voltage	resistance	power		
	VDC	VDC	VDC	Ω±10%	W		
5	5	3.75	0.6	14.9	1.7		
6	6	4.5	0.6	22	1.7		
9	9	6.75	0.9	48	1.7		
12	12	9	1.2	86	1.7		
18	18	13.5	1.8	197	1.7		
22	22	16.5	2.2	294	1.7		
24	24	18	2.4	350	1.7		
36	36	27	3.6	767	1.7		
48	48	36	4.8	1390	1.7		
110	110	82.5	11	7255	1.7		
120	120	90	12	8514	1.7		

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Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Catalog and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Catalog product data, 'Definitions' section. application notes and all specifications are subject to change.



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

Coil versions, AC coil (A type) (continued)

OUII V	con versions, Ac con (A type) (continued)					
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	2 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

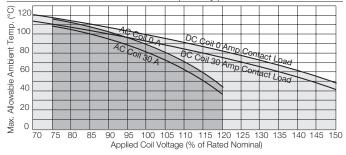
All figures are given for coil without preenergization, at ambient temperature +23°C. For A type, 110V/120V, 50/60Hz. Signify 50Hz Operation at Nominal 110V, 60 Hz Operation at Nominal 120V.

### 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 1500V<sub>rms</sub> between open contacts between contact and coil 4000V<sub>rms</sub> between adjacent contact 2000V<sub>rms</sub> Initial surge withstand voltage between contact and coil 8kV Initial insulation resistance between insulated elements $1x10^{9}\Omega$ 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/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,
RTII - flux proof, RTIII - wash tight

Vibration resistance (functional)
Shock resistance (functional)
Shock resistance (destructive)
Terminal type

RTI - dust protected,
RTII - dust protected,
RTI

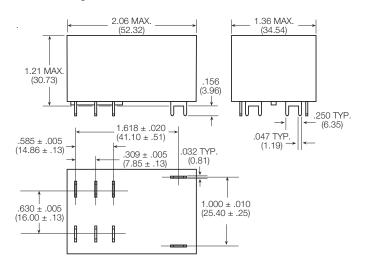
 Weight
 86g

 Resistance to soldering heat THT
 1EC 60068-2-20

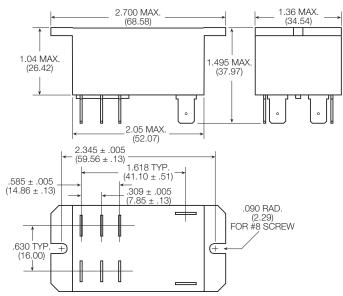
 Packaging/unit
 tray/30 pcs., box/120 pcs

## Dimensions

T92 - Mounting and termination code 1



T92 - Mounting and termination code 2, 3 and 4



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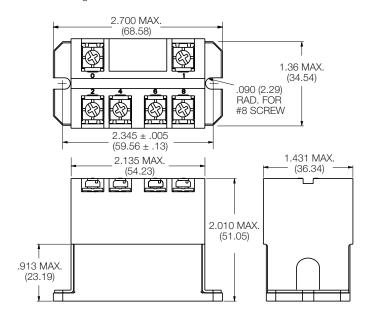
Catalog product data, 'Definitions' section, application notes and all specifications are subject to change.



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

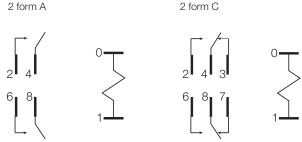
#### **Dimensions**

T92 - Mounting and termination code 5



#### Terminal assignment

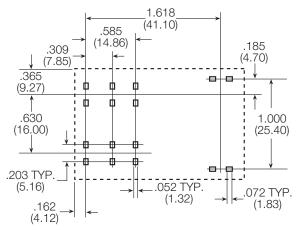
Bottom view on pins



### **PCB** layout

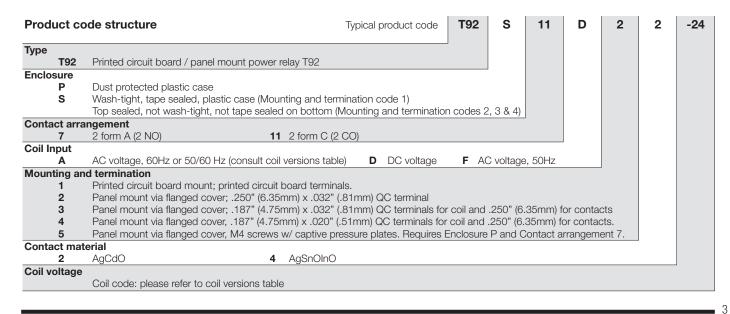
Bottom view on pins

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)

<b>Product Code</b>	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						277 VAC	6-1393211-3
T92P7A24-240					AgSnOlnO	240 VAC	3-1423008-3
T92P7A52-120				Panel mount + screw terminals	AgCdO	120 VAC	1423008-8
T92P7A52-240						240 VAC	1-1423008-2
T92P7D12-12			DC	PCB terminals		12 VDC	6-1393211-5
T92P7D12-24						24 VDC	6-1393211-6
T92P7D22-12				Panel mount + quick connect		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					J	24 VDC	1423008-9
T92P7D42-24					AgCdO		7-1393211-5
T92P7D52-12				Panel mount + screw terminals	1 9 2 2 2	12 VDC	1-1423008-0
T92P7D52-24						24 VDC	1423967-1
T92P11A12-120		2 form C, 2 CO	AC	PCB terminals		120 VAC	3-1393211-8
T92P11A22-12		2 101111 0, 2 00	710	Panel mount + quick connect		12 VAC	3-1393211-9
T92P11A22-24				Tanormount T quiet connect		24 VAC	4-1393211-3
T92P11A22-120						120 VAC	4-1393211-0
T92P11A22-240						240 VAC	4-1393211-4
T92P11A22-277						277 VAC	4-1393211-6
T92P11A24-240					AgSnOlnO	240 VAC	3-1423008-7
T92P11A42-120					AgCdO	120VAC	4-1393211-8
T92P11D12-12			DC	PCB terminals	Agodo	12 VDC	5-1393211-0
T92P11D12-12			DO	Panel mount + quick connect		12 VDO	5-1393211-3
T92P11D22-12				Failer mount + quick connect		24 VDC	5-1393211-4
T92P11D24-12					AgSnOlnO	12 VDC	3-1423008-5
T92P11D24-24					Agonomo	24 VDC	3-1423008-6
T92S7A12-24	Wash tight	2 form A, 2 NO	AC	PCB terminals	AgCdO	24 VDC 24 VAC	9-1393211-8
	vvasii tigrit	2 101111 A, 2 NO	AC	POB terminals	Agodo	120 VAC	9-1393211-7
T92S7A12-120						240 VAC	-
T92S7A12-240	Top cooled			Danal may not a suick compact		24 VAC	9-1393211-9
T92S7A22-24	Top sealed			Panel mount + quick connect		120 VAC	1393212-4 1393212-2
T92S7A22-120						240 VAC	-
T92S7A22-240	\A/aala tialat		DC	DCD townsingle			1393212-5
T92S7D12-12	Wash tight		DC	PCB terminals		12 VDC	1393212-8
T92S7D12-24						24 VDC	1-1393212-0
T92S7D12-48						48 VDC	1-1393212-1
T92S7D12-110					A a C a O la O	110 VDC	1393212-7
T92S7D14-24	Tara a sala al			Decel account a mileta consent	AgSnOlnO	24 VDC	1-1423008-8
T92S7D22-12	Top sealed			Panel mount + quick connect	AgCdO	12 VDC	1-1393212-4
T92S7D22-18						18 VDC	1-1393212-5
T92S7D22-24						24 VDC	1-1393212-7
T92S7D22-110	\A/	0.000	4.0	DOD 1 1 1		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	- · ·			B 1		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						110 VDC	8-1393211-8
T92S11D22-12	Top sealed			Panel mount + quick connect		12 VDC	9-1393211-3
T92S11D22-24						24 VDC	9-1393211-4

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