

## **K10 Series Miniature Relay**

- 2 Form C contact arrangement
- AC and DC coils
- Socket, PCB and top flange mounting options

Typical applications Industrial controls, medical, motor controls







Approvals
UL E22575; CSA L15734
Technical data of approved types on request

Contact Data				
Contact arrangement	2 form C (CO),			
	2 from A (NO),			
	2 form B (NC),			
	1 form A (NO) + 1 form B (NC)			
Rated voltage	120VAC			
Rated current	15A			
Contact material	Ag, AgCdO, AgSnOlnO			
Min. recommended contact load				
Ag contacts	100mA, 12VDC			
AgCdO and AgSnInO contacts	300mA, 12VDC			
Initial contact resistance	100mΩ			
Frequency of operation	360 ops./hour			
Operate/release time max.	13/10 ms			
Bounce time max.	10ms			

**Contact ratings** 

Contact ratii	iys		
Type	Load		Operations
UL 508			
Ag	10A, 30VDC		6x10 <sup>3</sup>
	10A, 277VAC		6x10 <sup>3</sup>
AgCdO	15A, 120VAC		100x10 <sup>3</sup>
	10A, 277VAC		100x10 <sup>3</sup>
	15A, 30VDC		100x10 <sup>3</sup>
	15 FLA, 36 LRA, 120VAC		100x10 <sup>3</sup>
	1/3HP, 120VAC		1x10 <sup>3</sup>
	1/2HP, 250VAC		1x10 <sup>3</sup>
AgSnOlnO	15A, 240VAC		70x10 <sup>3</sup>
Mechanical er	ndurance	10x106 operations	

Coil Data		
Coil voltage range	6 to 110VDC	
	6 to 240VAC	
Coil insulation system according UL	Class B	

Coil versions, DC coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%$	mW
006	6	4.5	0.6	40	900
012	12	9.0	1.2	160	900
024	24	18.0	2.4	650	900
048	48	36.0	4.8	2600	900
110	110	82.5	11.0	11000	1100

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

Coil Data (continued)								
Coil vers	sions, AC co	il						
Coil	Rated	Operate	Release	Coil	Rated c			
code	voltage	voltage	voltage	resistance	power			
	VAC	VAC	VAC	$\Omega \pm 15\%$	VA			
006	6	5.1	0.6	10.5	1.20			
012	12	10.2	1.2	43	1.20			

Rated coil
e power
VA
1.20
1.20
1.25
1.25
1.35
1.50

All figures are given for coil without preenergization, at ambient temperature +23°C, 60Hz.

Insulation Data	
Initial dielectric strength	
between open contacts	1000Vrms
between contact and coil	1500Vrms
between adjacent contacts	1500Vrms
between coil and frame	1500Vrms
Initial surge withstand voltage	
between adjacent contacts	1000MΩ at 500VDC

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

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Ambient temperature	-45°C to 70°C				
Category of environmental protection	1				
IEC 61810	RT0 - open relay				
	RTI - dust protected				
Vibration resistance (functional)	.059" double amplitude, 10-55Hz,				
	6 hours mechanical				
Shock resistance (functional)	15g. 11ms, mechanical				
Terminal type	quick connect (QC) .187				
	PCB .120" and .160" long				
Weight	51g				
Packaging/unit	box/250 pcs., tray/50 pcs.				

Accessories					
For details see	datasheet	Sockets and Accessories, K10 Relays			
Product Code	Description				
27E895	DIN socket				
27E487	Track mount socket				
20C426	Clip for 27E895 and	27E487			
27E488	Chassis/solder sock	et			
27E489	PCB socket				
20C217	Clin for 27F488 and	27F489			

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

Datasheets 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

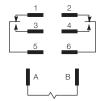
Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.



## K10 Series Miniature Relay (Continued)

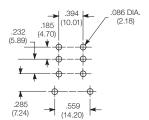
### Terminal assignment

2 Form C 2 Form A (delete 1 and 2) 2 Form B (delete 3 and 4)



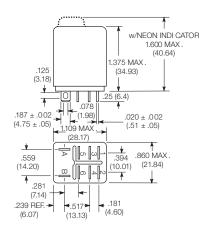
#### **PCB** layout

Bottom view on solder pins

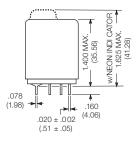


#### **Dimensions**

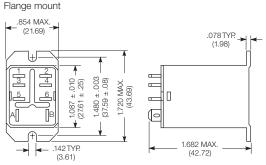
Mounting code 1 Socket mount

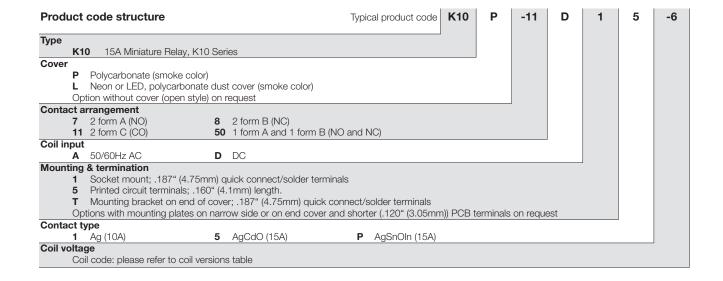


Mounting code 5
Printed circuit terminals



Mounting code T





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# K10 Series Miniature Relay (Continued)

<b>Product Code</b>	Arrangement	Cont. material	Coil	Coil	Terminals	Mounting	Part number
K10P-11A15-6	2 form C, 2 CO	AgCdO	AC coil	6VAC	Quick connect (QC)	Socket	4-1393144-4
K10P-11A15-12				12VAC			3-1393144-9
K10P-11A15-24				24VAC			4-1393144-1
K10P-11AT5-24						Bracket	3-1393144-5
K10P-11A15-120				120VAC		Socket	4-1393144-0
K10P-11AT5-120						Bracket	3-1393144-3
K10P-11D15-6			DC coil	6VDC		Socket	6-1393144-0
K10P-11D15-12				12VDC			5-1393144-5
K10P-11DT5-12						Bracket	5-1393144-0
K10P-11D15-24				24VDC		Socket	5-1393144-7
K10P-11DT5-24						Bracket	5-1393144-1
K10P-11D15-48				48VDC		Socket	5-1393144-9
K10P-11D15-110				110VDC			5-1393144-4
K10P-11D55-12				12VDC	PCB	PCB	6-1393144-6
K10P-11D55-24				24VDC			6-1393144-8
K10P-11D55-110				110VDC			6-1393144-5

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