

# **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 ratii	iyə		
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	10x10 <sup>6</sup> operations	

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

Coil versions, DC c	oil
---------------------	-----

Coil	Rated	Operate	Operate Release Coil		Rated coil
code	voltage	voltage	voltage voltage resistance		power
	VDC	VDC	VDC	Ω±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 (	ore given for soil	without propper	ization at ambi	ant tamparatura	123°C

### Coil Data (continued)

Coil versions, AC coil							
Coil	Rated	Operate	Release	Coil	Rated coil		
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		
024	24	20.4	2.4	160	1.25		
048	48	40.8	4.8	668	1.25		
120	120	102.0	12.0	3900	1.35		
240	240	204.0	24 0	12000	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 Ambient temperature -45°C to 70°C Category of environmental protection IEC 61810 RT0 - open relay RTI - dust protected Terminal type quick connect (QC) .187 PCB .120" and .160" long Weight 51g

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 socke	et .			
27E489	PCB socket				
20C217	Clin for 27F488 and	27F489			

Packaging/unit

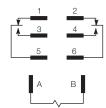
box/250 pcs., tray/50 pcs.



### K10 Series Miniature Relay (Continued)

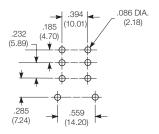
#### Terminal assignment

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



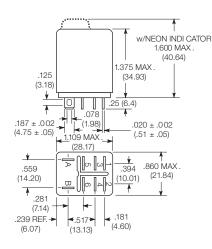
#### **PCB** layout

Bottom view on solder pins

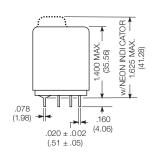


#### **Dimensions**

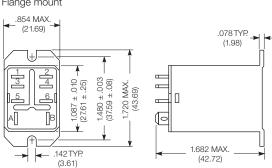
Mounting code 1 Socket mount



Mounting code 5 Printed circuit terminals



Mounting code T Flange mount



#### Product code structure

K10 15A Miniature Relay, K10 Series

## Type Cover

- Polycarbonate (smoke color)
- Neon or LED, polycarbonate dust cover (smoke color)

Option without cover (open style) on request

### **Contact arrangement**

- 2 form A (NO)
- 8 2 form B (NC)
- 11 2 form C (CO) 50 1 form A and 1 form B (NO and NC)

### Coil input

**A** 50/60Hz AC

**D** DC

### **Mounting & termination**

- Socket mount; .187" (4.75mm) quick connect/solder terminals 1
- Printed circuit terminals; .160" (4.1mm) length.
- Т Mounting bracket on end of cover; .187" (4.75mm) quick connect/solder terminals

Options with mounting plates on narrow side or on end cover and shorter (.120" (3.05mm)) PCB terminals on request

### Contact type

Ag (10A)

AgCdO (15A)

P AgSnOln (15A)

Typical product code

K10

P

-11

D

5

-6

Coil voltage

Coil code: please refer to coil versions table



# 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

# **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