

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, AgSnOInO
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

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Contact ratings						
Туре	Load		Operations			
UL 508						
Ag	10A, 30VDC		6x10 ³			
	10A, 277VAC		6x10 ³			
AgCdO	15A, 120VAC		100x10 ³			
	10A, 277VAC		100x10 ³			
	15A, 30VDC		100x10 ³			
	15 FLA, 36 LRA, 120VAC		100x10 ³			
	1/3HP, 120VAC		1x10 ³			
	1/2HP, 250VAC		1x10 ³			
AgSnOlnO	15A, 240VAC		70x10 ³			
Mechanical endurance 10x10 ⁶ 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 soil without presperaization at ambient temperature 193°C						

All figures are given for coil without preenergization, at ambient temperature +23°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 RT0 - open relay IEC 61810 RTI - dust protected Terminal type quick connect (QC) .187 PCB .120" and .160" long Weight 51g box/250 pcs., tray/50 pcs. Packaging/unit

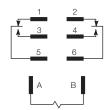
Accessories						
For details see datasheet		Sockets and Accessories, K10 Relays				
Product Code	Description					
27E895	DIN socket					
27E487	Track mount socket					
20C426	Clip for 27E895 and	27E487				
27E488	Chassis/solder sock	et				
27E489	PCB socket					
20C217	Clip for 27E488 and	27E489				



K10 Series Miniature Relay (Continued)

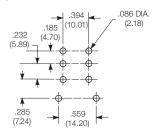
Terminal assignment

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



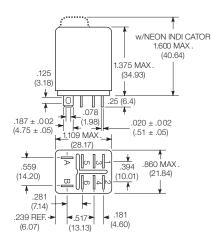
PCB layout

Bottom view on solder pins

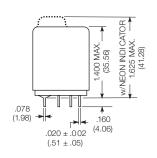


Dimensions

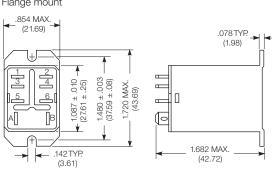
Mounting code 1 Socket mount



Mounting code 5
Printed circuit terminals



Mounting code T Flange mount



Product code structure Typical product code K10 P -11 D 5 -6 Type K10 15A Miniature Relay, K10 Series 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

P AgSnOln (15A)

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

Ag (10A)

Coil code: please refer to coil versions table

Contact type

Coil voltage

AgCdO (15A)



K10 Series Miniature Relay (Continued)

Product Code	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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