

KUEP Series Panel Plug-in Relay

- 1 Form X, 2 Form A and 2 Form C contact arrangements
- 10 amp current rating
- Magnetic blow-out
- **■** Various mounting options
- **■** Indicator lamp available

Typical applications DC load switching in industrial controls





Approvals
UL E22575; CSA LR15734; CE (KUEP-11 only)
Technical data of approved types on request

Contact Data		
Contact arrangement 1	form X (NO-DM), 2 form	A (NO), 2 form C (CO)
Rated voltage	150	VDC
Rated current	10	DA
Contact material	AgCdO	AgSnOlnO
Min. recommended contact loa	ad 300mA	, 12VDC
Frequency of operation	360 ops./hour	360 ops./hour
Operate/releases time max.	15/10ms	
Bounce time max.	17ms	

Operate/re	eleases time max. 15/10ms	
Bounce tir	me max. 17ms	
Contact r	atings	
Туре	Load	Cycles
UL 508		
KUEP, 1 fc	orm X, AgCdO	_
	10A, 150VDC	100x10 ³
	1A, 300VDC	100x10 ³
	2.5 A, 170 VDC, resistive	100x10 ³
KUEP, 2 fc	orm A, AgCdO	
	5 A, 150 VDC	
	2.5 A, 170 VDC, resistive	100x10 ³
KUEP, 2 fc	orm C, AgCdO	
	3 A, 150 VDC	
	2.5 A, 170 VDC, resistive	100x10 ³
	10 A, 240 VAC	
	10 A, 32 VDC	
	5 FLA, 15 LRA, 250 VAC	
	1/3 HP, 120 VAC	
	5 A, 120 VAC, tungsten	
	1/2 HP, 250 VAC	
	10 FLA, 40 LRA, 125 VAC	
	3 A, 600 VAC	
	1/2 HP, 480 VAC	
	1/2 HP, 600 VAC	
	1 HP, 480 VAC, 3 phase	
KUEP, 1 fc	orm X, AgSnOlnO	
	10A, 150VDC, resistive	30x10 ³
KUEP, 2 fc	orm A, AgSnOlnO	
	5 A, 150 VDC, resistive	100x10 ³
KUEP, 2 fc	orm C, AgSnOlnO	
	3 A, 150 VDC, resistive	100x10 ³
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Mechanical endurance 10x10⁶ ops.

Note: Indicated contact ratings and electrical endurance data apply only for direct wiring of the relay (according to UL 508/61810-1); for relays mounted on sockets, deratings may apply.

Coil Da	nta			
Coil volta	ige range		5 to 125VDC	
	-		6 to 240VAC	
Coil insul	ation system ac	cording UL	Class B	
Coil vers	sions, DC coil			
Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VDC	VDC	Ω±10%	W
One pol	e versions			
5	5	3.75	21	1.2
6	6	4.5	32	1.125
12	12	9.0	120	1.2
24	24	18.0	472	1.25
48	48	36.0	1800	1.3
110	110	82.5	10000	1.25
125	125	93.75	13000	1.2
Two pol	e versions			
5	5	3.75	14	1.8
6	6	4.5	20	1.8
12	12	9.0	80	1.8
24	24	18.0	320	1.8
48	48	36.0	1250	1.85
110	110	82.5	6720	1.8
125	125	93.75	8680	1.8

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

	_		
Coil	versions.	AC	coil

Coil Rated code Operate voltage voltage voltage Coil resistance pov	
VAC VAC Ω±15% V/VAC One pole versions 6 6 5.1 6 2. 12 12 10.2 24 2. 24 24 20.4 85 2. 120 120 102.0 2250 2.	d coil
One pole versions 6 6 5.1 6 2. 12 12 10.2 24 2. 24 24 20.4 85 2. 120 120 102.0 2250 2.	wer
6 6 5.1 6 2. 12 12 10.2 24 2. 24 24 20.4 85 2. 120 120 102.0 2250 2.	Ά
12 12 10.2 24 2. 24 24 20.4 85 2. 120 120 102.0 2250 2.	
24 24 20.4 85 2. 120 120 102.0 2250 2.	.0
120 120 102.0 2250 2.	.0
	.0
240 240 204.0 0110 2	.1
240 240 204.0 9110 2.	.1
Two pole versions	
6 6 5.1 4.2 2.	.8
12 12 10.2 18 2.	.8
24 24 20.4 72 2.	.8
120 120 102.0 1700 2.	.9
240 240 204.0 7200 2.	.9

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

Insulation Data		
Initial dielectric strength		
between open contacts	1200V _{rms}	
between contact and coil	2200V _{rms}	
between adjacent contacts	2200V _{rms}	
Initial insulation resistance		
between insulated elements	100ΜΩ	



KUEP Series Panel Plug-in Relay (Continued)

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 -45°C to 70°C
AC coil 1 pole: -45°C to 55°C
2 pole: -45°C to 45°C

Category of environmental protection

IEC 61810
Vibration resistance (functional)
Shock resistance (functional)
Terminal type

RTI - dust protected .065" double amplitude, 10-55Hz 15g, 11ms (non-operating) Quick connects (QC), .187 or .205

PCB-THT

Terminal retention, push force

QC .205 17 lbs for 3s QC .187 25 lbs for 3s

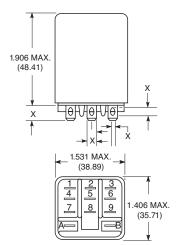
Other Data (Continued)	
Weight	85g
Packaging/unit	tray/25 pcs., box/150pcs.

For details see datasheet		Sockets and Accessories, KUP Relays
Product Code	Description	
27E893	DIN socket (use 20	0C318 clip)
27E121	Track mount socke	et (use 20C314 clips)
27E043	Chassis mount/sole	der eyelet socket (use 20C254 clip)
27E046	Chassis mount/PC	B socket (use 20C254 clip)

Chassis mount/quick connect socket (use 20C254 clip)
Snap-in/quick connect socket (use 20C254 clip)

Dimensions

Plain case

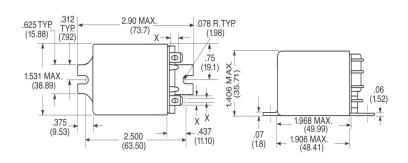


Bracket mount case

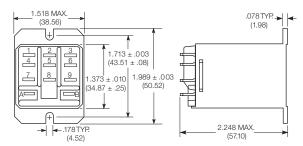
Accessories

27E067

27E396

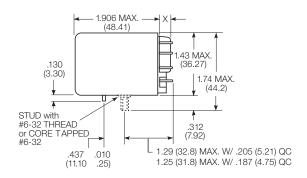


Top flange case

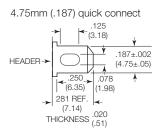


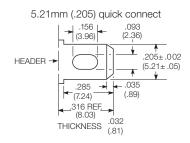
X Is For Terminal Dimensions. See Teminal Drawings.

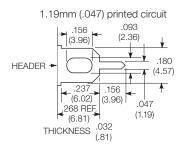
Core / stud mount case



Terminal dimensions









KUEP Series Panel Plug-in Relay (Continued)

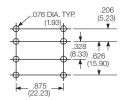
PCB layout

Bottom view on solder pins

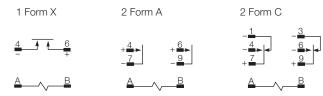
1 form X version

2 form C version shown (Omit unnecessary holes for form A types)

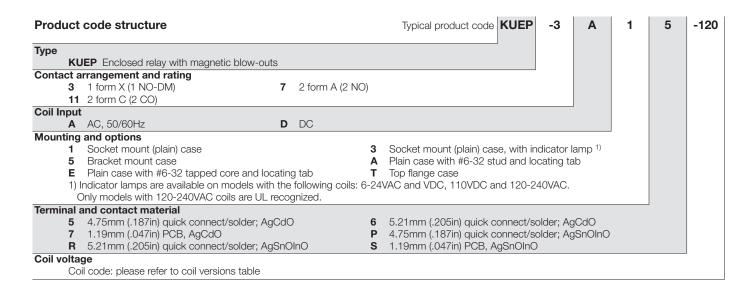




Terminal assignment



Load polarity noted above is recommended for optimum arc suppression.



Product Code	Arrangement	Material	Coil	Terminals	Mounting	Part Number
KUEP-3A15-120	1 Form X, 1 NO-DM	AgCdO	120 VAC	4.75mm (.187in) QC	Socket mount, plain case	9-1393113-4
KUEP-3D15-12			12 VDC			9-1393113-8
KUEP-3D15-24			24 VDC			1393114-1
KUEP-3D15-48			48 VDC			1393114-2
KUEP-3D15-110			110 VDC			9-1393113-7
KUEP-3D35-24			24 VDC		Socket mount, plain case w/ indicator lamp	1393114-5
KUEP-7D15-24	2 Form A, 2 NO				Socket mount, plain case	1-1393114-1
KUEP-11A15-120	2 Form C, 2 CO		120 VAC			8-1393113-3
KUEP-11D15-12			12 VDC			8-1393113-6
KUEP-11D15-24			24 VDC			8-1393113-7
KUEP-11D15-48			48 VDC			8-1393113-8
KUEP-11D15-110			110 VDC			8-1393113-5