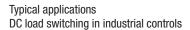


# **KUEP Series Panel Plug-in Relay**

- 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









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

Contact Data		
Contact arrangement 1	form X (NO-DM), 2 form	A (NO), 2 form C (CO)
Rated voltage	150	IVDC
Rated current	1	0A
Contact material	AgCdO	AgSnOlnO
Min. recommended contact loa	id 300mA	, 12VDC
Frequency of operation	360 ops./hour	360 ops./hour
Operate/releases time max.	15/10ms	
Bounce time max.	17ms	

Bounce time max.		17ms	
Contact i	ratings		
Туре	Load		Cycles
UL 508			
KUEP, 1 fo	orm X, AgCdO		
	10A, 150VDC		100x10 <sup>3</sup>
	1A, 300VDC		100x10 <sup>3</sup>
	2.5 A, 170 VDC, resistive		100x10 <sup>3</sup>
KUEP, 2 fo	orm A, AgCdO		
	5 A, 150 VDC		
	2.5 A, 170 VDC, resistive		100x10 <sup>3</sup>
KUEP, 2 fo	orm C, AgCdO		
	3 Å 150 V/DC		

10A, 150VDC	100x10 <sup>3</sup>
1A, 300VDC	100x10 <sup>3</sup>
2.5 A, 170 VDC, resistive	100x10 <sup>3</sup>
KUEP, 2 form A, AgCdO	
5 A, 150 VDC	
2.5 A, 170 VDC, resistive	100x10 <sup>3</sup>
KUEP, 2 form C, AgCdO	
3 A, 150 VDC	
2.5 A, 170 VDC, resistive	100x10 <sup>3</sup>
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 form X, AgSnOInO	
10A, 150VDC, resistive	30x10 <sup>3</sup>
KUEP, 2 form A, AgSnOInO	
5 A, 150 VDC, resistive	100x10 <sup>3</sup>
KUEP, 2 form C, AgSnOInO	
3 A, 150 VDC, resistive	100x10 <sup>3</sup>

10x106 ops. Mechanical endurance 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	ıta			
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 pole	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

Coll vers	sions, AC coil			
Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VAC	VAC	$\Omega \pm 15\%$	VA
One pol	e versions			
6	6	5.1	6	2.0
12	12	10.2	24	2.0
24	24	20.4	85	2.0
120	120	102.0	2250	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 <sub>rms</sub>	
between contact and coil	2200V <sub>rms</sub>	
between adjacent contacts	2200V <sub>rms</sub>	
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)

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

Terminal retention, push force

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

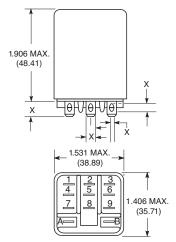
Other Data (Continued)	
Weight	85g
Packaging/unit	tray/25 pcs., box/150pcs.

Sockets and Accessories, KUP Relays

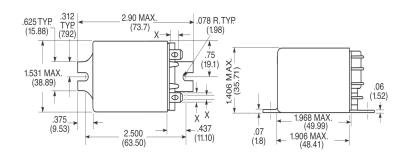
Product Code	Description
27E893	DIN socket (use 20C318 clip)
27E121	Track mount socket (use 20C314 clips)
27E043	Chassis mount/solder eyelet socket (use 20C254 clip)
27E046	Chassis mount/PCB socket (use 20C254 clip)
27E067	Chassis mount/quick connect socket (use 20C254 clip)
27E396	Snap-in/quick connect socket (use 20C254 clip)

#### **Dimensions**

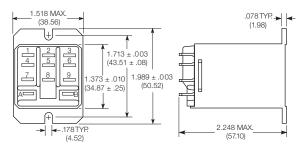
#### Plain case



# Bracket mount case

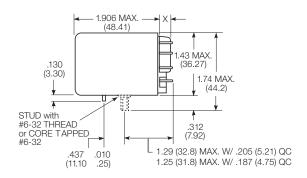


#### Top flange case

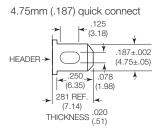


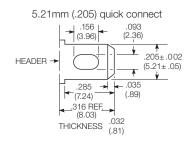
X Is For Terminal Dimensions. See Teminal Drawings.

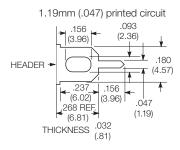
#### Core / stud mount case



#### **Terminal dimensions**









## **KUEP Series Panel Plug-in Relay** (Continued)

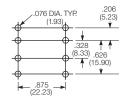
#### **PCB** layout

Bottom view on solder pins

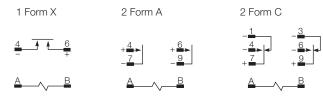
1 form X version

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

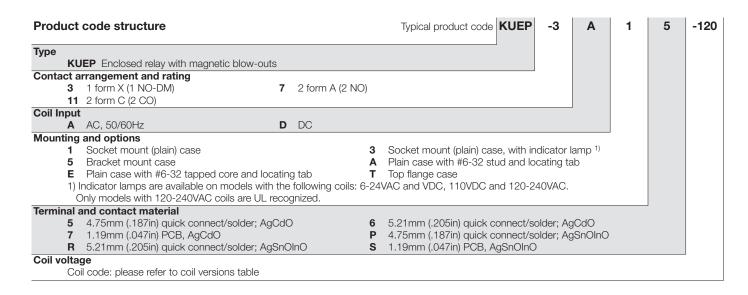




#### Terminal assignment



Load polarity noted above is recommended for optimum arc suppression.



<b>Product Code</b>	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

# **Mouser Electronics**

**Authorized Distributor** 

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TE Connectivity: KUEP-3A15-120