

# **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

**Approvals** 

- **■** Various mounting options
- **■** Indicator lamp available

Typical applications DC load switching in industrial controls

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	1 form X (NO-DM), 2 form A (NO), 2 form C (CO) 150VDC				
Rated voltage	15					
Rated current		10A				
Contact material	AgCdO	AgSnOlnO				
Min. recommended contact	ct load 300m.	oad 300mA, 12VDC				
Frequency of operation	360 ops./hour	360 ops./hour				
Operate/releases time max	x. 15/10ms					
Bounce time max.	17ms					
Contact ratings						
Type Load		Cycles				
UL 508						
KUEP, 1 form X, AgCdO						
10A, 150\	VDC	100x10 <sup>3</sup>				
1A, 300V	DC	100x10 <sup>3</sup>				
2.5 A, 170	0 VDC, resistive	100x10 <sup>3</sup>				
KUEP, 2 form A, AgCdO						
5 A, 150 Y	VDC					
2.5 A, 170	0 VDC, resistive	100x10 <sup>3</sup>				

UL 508	
KUEP, 1 form 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 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, AgSnOlnO	
10A, 150VDC, resistive	30x10 <sup>3</sup>
KUEP, 2 form A, AgSnOlnO	
5 A, 150 VDC, resistive	100x10 <sup>3</sup>
KUEP, 2 form C, AgSnOlnO	
3 A, 150 VDC, resistive	100x10 <sup>3</sup>
Mechanical endurance	10x10 <sup>6</sup> ops.

Coil Da	ıta			
Coil volta	ige range		5 to 125VDC	
	0		6 to 240VAC	
Coil insul	ation system ac	cording UL	Class B	
	sions, DC coil			
Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VDČ	VDČ	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	Ω±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	$1200V_{rms}$
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.

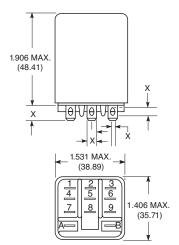
For details see datasheet		datasheet Sockets and Accessories, KUP Relays
27E121 Track mount soc 27E043 Chassis mount/s		Description
		DIN socket (use 20C318 clip)
		Track mount socket (use 20C314 clips)
		Chassis mount/solder eyelet socket (use 20C254 clip)
		Chassis mount/PCB socket (use 20C254 clip)

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

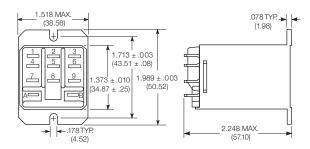
Snap-in/quick connect socket (use 20C254 clip)

#### **Dimensions**

### Plain case



## Top flange case



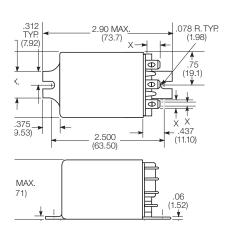
X Is For Terminal Dimensions. See Teminal Drawings.

## Bracket mount case

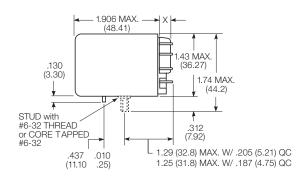
**Accessories** 

27E067

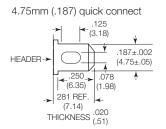
27E396

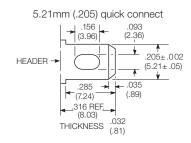


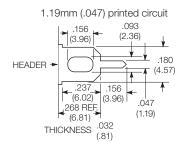
Core / stud mount case



## **Terminal dimensions**









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

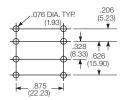
#### **PCB** layout

Bottom view on solder pins

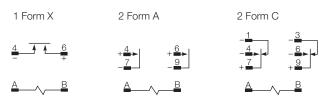
1 form X version

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

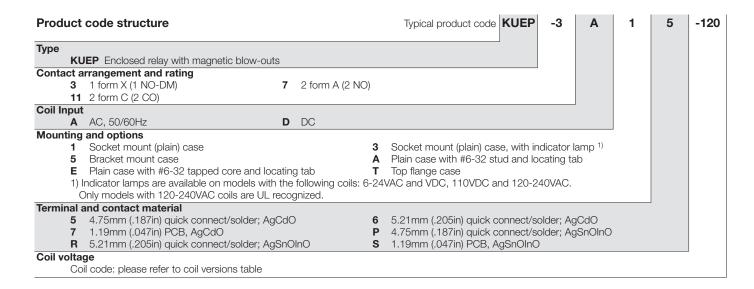




## Terminal assignment



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** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity: KUEP-7D15-125