

# **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

Ammusicals

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

Typical applications DC load switching in industrial controls







Approvais						
UL E22575; CSA I	R1573	4; CE (KI	UEP-11 only)			
Technical data of appr	oved typ	es on requ	est			
<b>Contact Data</b>						
0 1 1		1.0	V (A IO DA A)	o (	A (N.IO) O (	0 (00)

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

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Operate/releases time max.	15/10ms	·
Bounce time max.	17ms	
Contact ratings		
Type Load		Cycles
UL 508		
KUEP, 1 form X, AgCdO		100,403
10A, 150VDC 1A, 300VDC		100x10 <sup>3</sup> 100x10 <sup>3</sup>
	roointivo	100x10 <sup>3</sup>
2.5 A, 170 VD0 KUEP, 2 form A, AgCdO	J, resistive	100010
5 A. 150 VDC		
2.5 A, 170 VDO	? registive	100x10 <sup>3</sup>
KUEP, 2 form C, AgCdO	5, 100101110	100010
3 A, 150 VDC		
2.5 A, 170 VD0	C, resistive	100x10 <sup>3</sup>
10 A. 240 VAC	,	
10 A, 32 VDC		
5 FLA, 15 LRA	, 250 VAC	
1/3 HP, 120 VA	ÁC .	
5 A, 120 VAC,	tungsten	
1/2 HP, 250 VA	AC .	
10 FLA, 40 LR.	A, 125 VAC	
3 A, 600 VAC		
1/2 HP, 480 VA	/C	
1/2 HP, 600 VA		
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		100v103

3 Å, 150 VDC, resistive

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

ions, AC coil			
Rated	Operate	Coil	Rated coil
voltage	voltage	resistance	power
VAC	VAC	$\Omega \pm 15\%$	VA
e versions			
6	5.1	6	2.0
12	10.2	24	2.0
24	20.4	85	2.0
120	102.0	2250	2.1
240	204.0	9110	2.1
versions			
6	5.1	4.2	2.8
12	10.2	18	2.8
24	20.4	72	2.8
120	102.0	1700	2.9
240	204.0	7200	2.9
	Rated voltage VAC e versions 6 12 24 120 240 e versions 6 12 24 120 241 20 241 20	Rated Voltage Voltage VAC	Rated voltage voltage voltage voltage         Coil resistance resistance Ω±15%           e versions         6         5.1         6           12         10.2         24           24         20.4         85           120         102.0         2250           240         204.0         9110           e versions         6         5.1         4.2           12         10.2         18           24         20.4         72           120         102.0         1700

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

Mechanical endurance

10x10<sup>6</sup> ops.

100x10<sup>3</sup>



# **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

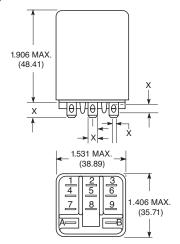
Other Data (Continued)	
Weight	85g
Packaging/unit	tray/25 pcs., box/150pcs.

Accessories	S				
For details see	For details see datasheet Sockets and Accessories, KUP Relays				
Product Code	Description				
27E893	DIN socket (us	se 20C318 clip)			
97E191	Trook mount of	ookot (ugo 200214 olipa)			

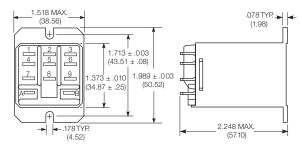
27E893	DIN socket (use 20C318 clip)
27E121	Track mount socket (use 20C314 clips)
27E043	Chassis mount/solder eyelet socket (use 20C254 clip)
27E046	Chassis mount/PCB socket (use 20C254 clip)
27E067	Chassis mount/quick connect socket (use 20C254 clip)
27E396	Snap-in/quick connect socket (use 20C254 clip)

#### **Dimensions**

### Plain case

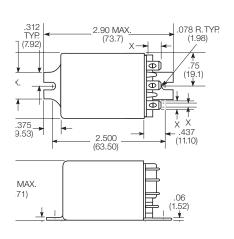


## Top flange case

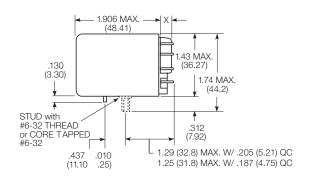


X Is For Terminal Dimensions. See Teminal Drawings.

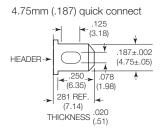
## Bracket mount case

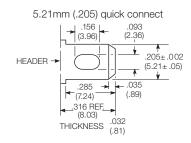


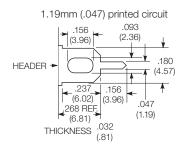
Core / stud mount case



## **Terminal dimensions**









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

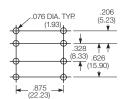
#### **PCB** layout

Bottom view on solder pins

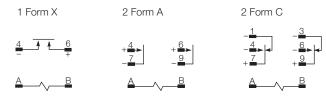
1 form X version

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

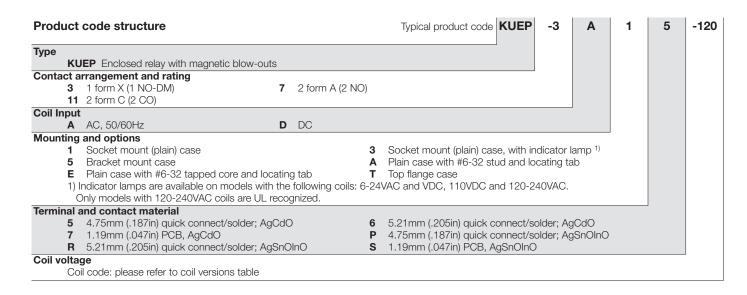




## Terminal assignment



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			8-1393113-8
KUEP-11D15-24			24 VDC			8-1393113-7
KUEP-11D15-48			48 VDC			8-1393113-6
KUEP-11D15-110			110 VDC			8-1393113-5