

# **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	OA AC
Contact material	AgCdO	AgSnOlnO
Min. recommended contact lo	oad 300mA	, 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/rel	eases time max.	15/10ms	
Bounce tim	e max.	17ms	
Contact ra	ntings		
Туре	Load		Cycles
UL 508			
KUEP, 1 for	m X, AgCdO		
	10A, 150VDC		100x10 <sup>3</sup>
	1A, 300VDC		100x10 <sup>3</sup>
	2.5 A, 170 VDC, resistiv	е	100x10 <sup>3</sup>
KUEP, 2 for	m A, AgCdO		
	5 A, 150 VDC		
	2.5 A, 170 VDC, resistiv	е	100x10 <sup>3</sup>
KUEP, 2 for	m C, AgCdO		
	3 A, 150 VDC		
	2.5 A, 170 VDC, resistiv	е	100x10 <sup>3</sup>
	10 A, 240 VAC		
	10 A, 32 VDC		
	5 FLA, 15 LRA, 250 VAC	0	
	1/3 HP, 120 VAC		
	5 A, 120 VAC, tungsten		
	1/2 HP, 250 VAC		
	0.5 A, 125 VDC		
	10 FLA, 40 LRA, 125 VA	AC .	
	3 A, 600 VAC		
	1/2 HP, 480 VAC		
	1/2 HP, 600 VAC		
	1 HP, 480 VAC, 3 phase	)	
KUEP, 1 for	m X, AgSnOlnO		
	10A, 150VDC, resistive		30x10 <sup>3</sup>
KUEP, 2 for	m A, AgSnOlnO		
	5 A, 150 VDC, resistive		100x10 <sup>3</sup>
KUEP, 2 for	m C, AgSnOlnO		

3 A, 150 VDC, resistive

Coil Da	ata			
Coil volta	ige range		5 to 110VDC	
			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
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

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

Coil versions,	AC	coil
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OUII VCI	310113, 70 0011			
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 pol	e 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>me</sub>	
between contact and coil	2200V_m_	
between adjacent contacts	2200V <sub>ms</sub>	
Initial insulation resistance	·····o	
between insulated elements	100ΜΩ	

Mechanical endurance

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

 $100x10^{3}$ 



# **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

AC coil

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

Category of environmental protection

RTI - dust protected IEC 61810

Terminal type Quick connects (QC), .187 or .205

PCB-THT

Terminal retention, push force

QC .205 17 lbs for 3s

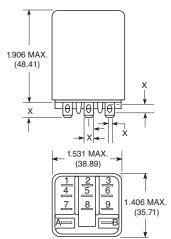
QC .187

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

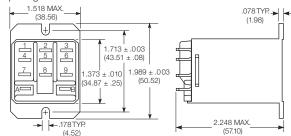
Accessories	S	
For details see datasheet Sockets and Accessories, KUP Rel		
Product Code	Description	
27E893	DIN socket (us	se 20C318 clip)
27E121	Track mount s	ocket (use 20C314 clips)
27E043	Chassis moun	t/solder eyelet socket (use 20C254 clip)
27E046	Chassis moun	t/PCB socket (use 20C254 clip)
27E067	Chassis moun	t/quick connect socket (use 20C254 clip)
27E396	Snap-in/quick	connect socket (use 20C254 clip)

#### **Dimensions**



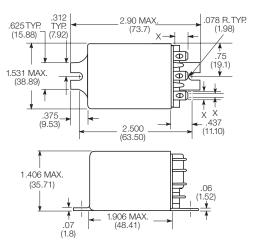


#### Top flange case .518 MAX.

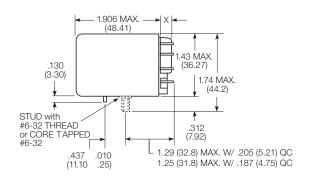


X Is For Terminal Dimensions. See Teminal Drawings.

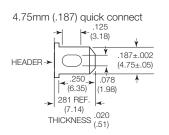
## Bracket mount case

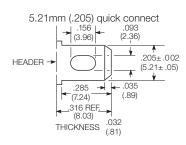


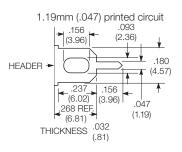
Core / stud mount case



#### **Terminal dimensions**









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

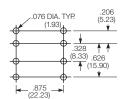
## **PCB** layout

Bottom view on solder pins

1 form X version

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





### Terminal assignment

1 form X 2 form A 2 form C







Load polarity noted above is recommended for optimum arc suppression.

### Product code structure

Typical product code **KUEP** -3 Α 1

Type

KUEP Enclosed relay with magnetic blow-outs

Contact arrangement and rating

1 form X (1 NO-DM) 11 2 form C (2 CO)

7 2 form A (2 NO)

**Coil Input** 

**A** AC, 50/60Hz

**D** DC

Mounting and options

Socket mount (plain) case

Bracket mount case Plain case with #6-32 tapped core and locating tab Socket mount (plain) case, with indicator lamp 1)

Plain case with #6-32 stud and locating tab

Top flange case

1) Indicator lamps are available on models with the following coils: 6-24VAC and VDC, 110VDC and 120-240VAC.

Only models with 120-240VAC coils are UL recognized.

Terminal and contact material

4.75mm (.187in) quick connect/solder; AgCdO 5

1.19mm (.047in) PCB, AgCdO R 5.21mm (.205in) quick connect/solder; AgSnOlnO 5.21mm (.205in) quick connect/solder; AgCdO

4.75mm (.187in) quick connect/solder; AgSnOlnO 1.19mm (.047in) PCB, AgSnOlnO

Coil voltage

Coil code: please refer to coil versions table

<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 with 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

-120

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