

SP.

5 to 125\/DC

# **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

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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 150VDC				
Rated current		A		
Contact material	AgCdO	AgSnOlnO		
Min. recommended contact load		, 12VDC		
Frequency of operation	360 ops./hour	360 ops./hour		
Operate/releases time max.	15/10ms	·		
Bounce time max.	17ms			
Contact ratings		Qualaa		
Type Load		Cycles		
UL 508				
KUEP, 1 form X, AgCdO 10A, 150VDC		100x10 <sup>3</sup>		
1A, 300VDC				
,	-1-11	100x10 <sup>3</sup>		
2.5 A, 170 VDC, re	SISTIVE	100x10 <sup>3</sup>		
KUEP, 2 form A, AgCdO				
5 A, 150 VDC	-1-11	100103		
2.5 A, 170 VDC, re	SISTIVE	100x10 <sup>3</sup>		
KUEP, 2 form C, AgCdO				
3 A, 150 VDC				
2.5 A, 170 VDC, re	SISTIVE	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, tung	Isten			
1/2 HP, 250 VAC				
10 FLA, 40 LRA, 12	25 VAC			
3 A, 600 VAC				
1/2 HP, 480 VAC				
1/2 HP, 600 VAC				
1 HP, 480 VAC, 3 p	hase			
KUEP, 1 form X, AgSnOlnO				
10A, 150VDC, resis	stive	30x10 <sup>3</sup>		
KUEP, 2 form A, AgSnOlnO				
5 A, 150 VDC, resis	stive	100x10 <sup>3</sup>		
KUEP, 2 form C, AgSnOlnO				
3 A, 150 VDC, resis	stive	100x10 <sup>3</sup>		
Mechanical endurance		) <sup>6</sup> ops.		
Note: Indicated contact ratings and	electrical endurand	ce data apply only for		

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.

Coll vollage range			510125700			
5 5			6 to 240VAC			
Coil insulation system according UL			Class B			
Coil ver	sions, DC coil					
Coil	Rated	Operate	Coil	Rated coil		
code	voltage	voltage	resistance	power		
	VDC	VDC	Ω±10%	W		
One pol	le versions					
5	5	3.75	21	1.2		
6	6	4.5	32	1.125		
12	12	9.0	120	1.2		
24	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 Data** 

Coil voltage range

	50113, AO COI			
Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	voltage resistance	
	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	20.4 85	
120	120	102.0	102.0 2250	
240	240	204.0	9110	2.1
Two pole	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>rms</sub>	
between contact and coil	2200V <sub>rms</sub>	
between adjacent contacts	2200V <sub>rms</sub>	
Initial insulation resistance		
between insulated elements	100MΩ	

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Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change. 1



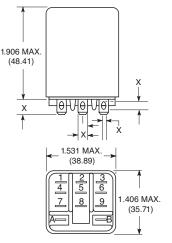
# KUEP Series Panel Plug-in Relay (Continued)

## **Other Data**

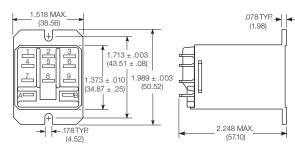
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content						
refer to the Product Compliance Support Center at						
www.te.com/c	ustomersupport/rohssupportcenter					
Ambient temperature						
DC coil	-45°C to 70°C					
AC coil	1 pole: -45°C to 55°C					
	2 pole: -45°C to 45°C					
Category of environmental protection	1					
IEC 61810	RTI - dust protected					
Vibration resistance (functional)	.065" double amplitude, 10-55Hz					
Shock resistance (functional)	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					

#### Dimensions

Plain case



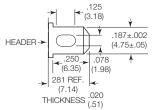
Top flange case



X Is For Terminal Dimensions. See Teminal Drawings.

### **Terminal dimensions**

4.75mm (.187) quick connect



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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

5.21mm (.205) quick connect

.156

(3.96)

.285 

316 REE

(8.03)

THICKNESS

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HEADER →

.093 (2.36)

¥

(.89)

.032

(.81)

.205±.002

(5.21±.05)

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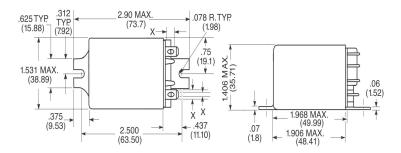
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## Other Data (Continued)

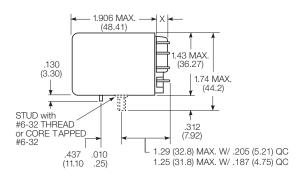
vveignt	85g			
Packaging/unit	tray/25 pcs., box/150pcs.			

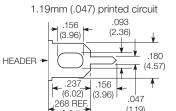
For details see	datasheet	Sockets and Accessories, KUP Relays
Product Code	Description	
27E893	DIN socket (use 20	DC318 clip)
27E121	Track mount sock	et (use 20C314 clips)
27E043	Chassis mount/so	lder eyelet socket (use 20C254 clip)
27E046	Chassis mount/PC	B socket (use 20C254 clip)
27E067	Chassis mount/qu	ick connect socket (use 20C254 clip)
27E396	Snap-in/quick con	nect socket (use 20C254 clip)

Bracket mount case



Core / stud mount case





(6.81)

THICKNESS (.81)

(1.19)



# KUEP Series Panel Plug-in Relay (Continued)

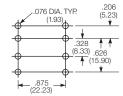
### PCB layout

Bottom view on solder pins

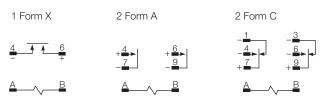
1 form X version

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





### Terminal assignment



Load polarity noted above is recommended for optimum arc suppression.

Produ	uct code structure			Typical product code	KUEP	-3	Α	1	5	-120
Туре										
	<b>KUEP</b> Enclosed relay with magnetic blow-ou	ts								
Contac	ct arrangement and rating									
	3 1 form X (1 NO-DM)	7	2 form A (2 NO)							
	11 2 form C (2 CO)									
Coil In	iput						-			
	A AC, 50/60Hz	D	DC							
Mount	ting and options									
	1 Socket mount (plain) case		3	Socket mount (plain) cas	se, with ind	licator	lamp 1)			
	5 Bracket mount case		A	Plain case with #6-32 st	ud and loc	ating ta	ab			
	E Plain case with #6-32 tapped core and lo	cating	g tab 🛛 🕇	Top flange case						
	1) Indicator lamps are available on models wit	h the	following coils: 6-2	4VAC and VDC, 110VDC a	nd 120-24	OVAC.				
	Only models with 120-240VAC coils are UL	reco	gnized.							
Termin	nal and contact material								_	
	5 4.75mm (.187in) quick connect/solder; A	gCdC	) 6	5.21mm (.205in) quick c	connect/sol	lder; Ag	gCdO			
	7 1.19mm (.047in) PCB, AgCdO		F	4.75mm (.187in) quick c	connect/sol	lder; Ag	gSnOlnO			
	R 5.21mm (.205in) quick connect/solder; A	gSnC	NnO S	1.19mm (.047in) PCB, A	AgSnOlnO					
Coil vo	oltage									
	Coil code: please refer to coil versions table									

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

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