

SP.

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

R

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		A (NO), 2 form C (CO)
Rated voltage	VDC	
Rated current	1(A
Contact material	AgCdO	AgSnOlnO
Min. recommended contact load	300mA,	12VDC
Frequency of operation	360 ops./hour	360 ops./hour
Operate/releases time max.	15/10ms	
Bounce time max.	17ms	
Contract vetings		
Contact ratings Type Load		Cycles
UL 508		Oycies
KUEP, 1 form X, AgCdO		
10A, 150VDC		100x10 ³
1A, 300VDC		100x10 ³
2.5 A, 170 VDC, re	aiativa	100x10 ³
KUEP, 2 form A, AgCdO	SISTING	100210*
5 A, 150 VDC		
,	alath ia	100-103
2.5 A, 170 VDC, re	SIStive	100x10 ³
KUEP, 2 form C, AgCdO		
3 A, 150 VDC	-1-41	100.103
2.5 A, 170 VDC, re	SISTIVE	100x10 ³
10 A, 240 VAC		
10 A, 32 VDC		
5 FLA, 15 LRA, 250	J 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, AgSnOInO		
10A, 150VDC, resis	stive	30x10 ³
KUEP, 2 form A, AgSnOlnO		
5 A, 150 VDC, resis	stive	100x10 ³
KUEP, 2 form C, AgSnOlnO		
3 A, 150 VDC, resis	stive	100x10 ³
Mechanical endurance	10x10) ⁶ ops.
Note: Indicated contact ratings and	electrical endurand	e 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.

ande		5 to 125V/DC				
ungo						
	ng UL	Class B				
Coil versions, DC coil Coil Rated Operate Coil						
Rated	Operate	Coil	Rated coil			
oltage	voltage	resistance	power			
VDC	VDC	Ω±10%	W			
rsions						
5	3.75	21	1.2			
6	4.5	32	1.125			
12	9.0	120	1.2			
24	18.0	472	1.25			
48	36.0	1800	1.3			
110	82.5	10000	1.25			
25 125 93.75		13000	1.2			
rsions						
5	3.75	14	1.8			
6	4.5	20	1.8			
12	9.0	80	1.8			
24	18.0	320	1.8			
48	36.0	1250	1.85			
110	82.5	6720	1.8			
125	93.75	8680	1.8			
	s, DC coil Rated oltage VDC sions 5 6 12 24 48 110 125 sions 5 6 12 24 48 12 24 48 12 24 48 110	system according UL s, DC coil Rated Operate oltage voltage VDC VDC rsions 5 5 3.75 6 4.5 12 9.0 24 18.0 48 36.0 110 82.5 125 93.75 sions 5 5 3.75 6 4.5 12 9.0 24 18.0 48 36.0 12 9.0 24 18.0 48 36.0 10 82.5	$\begin{array}{c c c c c c c c c c c c c c c c c c c $			

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

Coil versions, AC coil

Coil Data

Rated	Operate	Coil	Rated coil
voltage	voltage	voltage resistance	
VAC	VAC	Ω±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	102.0 2250	
240	204.0	9110	2.1
e 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
	voltage VAC e versions 6 12 24 120 240 e versions 6 12 24 24 24 120	voltage VAC voltage VAC 6 5.1 12 10.2 24 20.4 120 102.0 240 204.0 eversions 6 5.1 12.2 240 204.0 eversions 6 5.1 10.2 24 20.4 12 10.2 24 20.4 120 102.0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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	100MΩ

Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

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

05-2022, Rev. 0522 www.te.com © 2015 Tyco Electronics Corporation, a TE Connectivity Ltd. company Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.



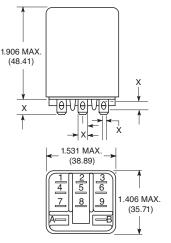
KUEP Series Panel Plug-in Relay (Continued)

Other Data

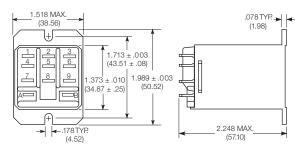
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen conten					
refer to the Product Compliance Support Center at					
www.te.com/c	ustomersupport/rohssupportcenter				
Ambient temperature					
DC coil	-45°C to 70°C				
AC coil	1 pole: -45°C to 55°C				
	2 pole: -45°C to 45°C				
Category of 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



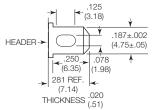
Top flange case



X Is For Terminal Dimensions. See Teminal Drawings.

Terminal dimensions

4.75mm (.187) quick connect



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5.21mm (.205) quick connect

.156

(3.96)

.285 -

316 REE

(8.03)

THICKNESS

-

HEADER →

.093 (2.36)

¥

(.89)

.032

(.81)

.205±.002

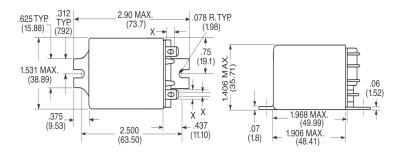
(5.21±.05)

Other Data (Continued)

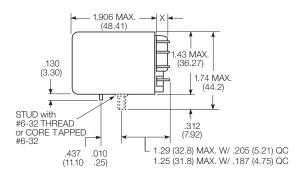
vveigni	809
Packaging/unit	tray/25 pcs., box/150pcs.

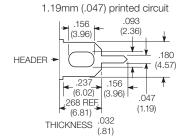
For details see	datasheet Sockets and Acc	cessories, KUP Relays
Product Code	Description	
27E893	DIN socket (use 20C318 clip)	
27E121	Track mount socket (use 20C314 cli	ps)
27E043	Chassis mount/solder eyelet socket	(use 20C254 clip)
27E046	Chassis mount/PCB socket (use 200	C254 clip)
27E067	Chassis mount/quick connect socke	t (use 20C254 clip)
27E396	Snap-in/quick connect socket (use 2	20C254 clip)

Bracket mount case



Core / stud mount case





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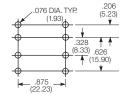
PCB layout

Bottom view on solder pins

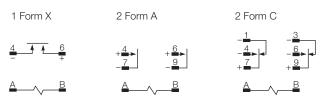
1 form X version

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										
	KUEP 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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