

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



Typical applications Locomotives

Approvals

UL E22575; CSA LR15734; CE (KUEP-11 only) Technical data of approved types on request

Contact Data

Contact arrangement 1 f	orm X (NO-DM), 2 form	Λ (NO) 2 form C (CO)
Rated voltage		VDC
Rated current		DA AC
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		
Type Load		Cycles
UL 508		
KUEP, 1 form X, AqCdO		
10A, 150VDC		100x10 ³
1A, 300VDC		100x10 ³
2.5 A, 170 VDC), resistive	100x10 ³
KUEP, 2 form A, AgCdO	, 100,04110	100/110
5 A, 150 VDC		
2.5 A, 170 VDC), resistive	100x10 ³
KUEP, 2 form C, AgCdO	, 100,04110	100,110
3 A, 150 VDC		
2.5 A, 170 VDC), resistive	100x10 ³
10 A, 240 VAC	,	
10 A, 32 VDC		
5 FLA, 15 LRA	250 VAC	
1/3 HP, 120 VA		
5 A, 120 VAC,		
1/2 HP, 250 VA		
0.5 A, 125 VDC		
10 FLA, 40 LR/		
3 A, 600 VAC	n, 120 VAO	
1/2 HP, 480 VA	C	
1/2 HP, 600 VA		
1 HP, 480 VAC		
KUEP, 1 form X, AgSnOlnO	, o priase	
10A, 150VDC,	ropiotivo	30x10 ³
KUEP, 2 form A, AgSnOlnO	TESISTIVE	30710-
	rociativo	100-103
5 A, 150 VDC, KUEP, 2 form C, AgSnOlnO	I COISTIVE	100x10 ³
	rociativo	100-103
3 A, 150 VDC, Mechanical endurance	10010	100x10 ³) ⁶ ops.
	TUX IC	o ops.

Coil Data

oon bata		
Coil voltage range	5 to 110VDC	
	6 to 240VAC	
Coil insulation system according UL	Class B	

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

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

gr

Coil versions, AC coil

CONVERS	SIGHS, 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	204.0 9110	
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	2200Vrms	
between adjacent contacts	2200Vrms	
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' sec-tion, application notes and all specifications are subject to change.

1



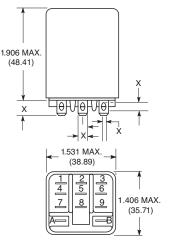
KUEP Series Panel Plug-in Relay (Continued)

Other Data

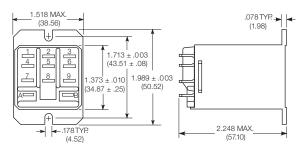
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content						
refer to the Product Compliance Support Center at						
www.te.com/c	ustomersupport/rohssupportcenter					
Ambient temperature						
DC coil	-45°C to 70°C					
AC coil	1 pole: -45°C to 55°C					
	2 pole: -45°C to 45°C					
Category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



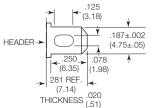
Top flange case



X Is For Terminal Dimensions. See Teminal Drawings.

Terminal dimensions

4.75mm (.187) quick connect



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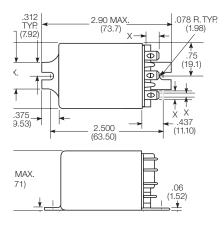
2

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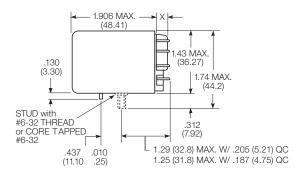
vveigni	80y
Packaging/unit	tray/25 pcs., box/150pcs.

Accessories Sockets and Accessories, KUP Relays For details see datasheet Product Code Description DIN socket (use 20C318 clip) 27E893 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)

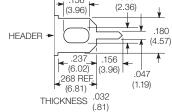
Bracket mount case



Core / stud mount case



1.19mm (.047) printed circuit .093 .156



Datasheets, product data, 'Definitions' section, application notes and all specifications

5.21mm (.205) quick connect

.156

(3.96)

.285 -

(7.24)

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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KUEP Series Panel Plug-in Relay (Continued)

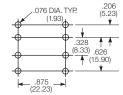
PCB layout

Bottom view on solder pins

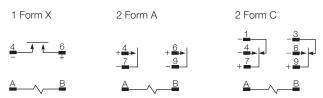
1 form X version

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	ct code structure			Typical product code	KUEP	-3	A	1	5	-120
Туре										
	KUEP Enclosed relay with magnetic blow-out	S								
Contac	t arrangement and rating									
	3 1 form X (1 NO-DM)	7	2 form A (2 NO)							
	11 2 form C (2 CO)									
Coil Inp	out						_			
	A AC, 50/60Hz	D	DC							
Mounti	ng and options									
	1 Socket mount (plain) case		3	Socket mount (plain) cas	se, with in	dicator	lamp 1)			
	5 Bracket mount case		Α	Plain case with #6-32 st	ud and loo	cating ta	ab			
	E Plain case with #6-32 tapped core and loc	ating	g tab T	Top flange case						
	1) Indicator lamps are available on models with	the	following coils: 6-24	4VAC and VDC, 110VDC a	nd 120-24	40VAC.				
	Only models with 120-240VAC coils are UL r	eco	gnized.							
Termina	al and contact material								-	
	5 4.75mm (.187in) quick connect/solder; Ag	CdC) 6	5.21mm (.205in) quick c	connect/sc	older; Ag	gCdO			
	7 1.19mm (.047in) PCB, AgCdO		P	4.75mm (.187in) quick c	connect/sc	older; Ag	gSnOlnO			
	R 5.21mm (.205in) quick connect/solder; Ag	SnO	InO S	1.19mm (.047in) PCB, A	gSnOlnO					
Coil vo	Itage									-
	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			8-1393113-8
KUEP-11D15-24			24 VDC			8-1393113-7
KUEP-11D15-48			48 VDC			8-1393113-6
KUEP-11D15-110			110 VDC			8-1393113-5

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