

(F)

5 to 125VDC

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

۶L°

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 arran	gement 1 form	X (NO-DM), 2 forn	n A (NO), 2 1	orm C (CO)
Rated voltage			OVDC	· · ·
Rated current		1	0A	
Contact mate	rial	AgCdO	AgSn	OlnO
Min. recomme	ended contact load		A, 12VDC	
Frequency of	operation	360 ops./hour	360 ops	s./hour
Operate/relea	ses time max.	15/10ms		
Bounce time r	max.	17ms		
Contact ratin				0
Туре	Load			Cycles
UL 508	V A 0 10			
KUEP, 1 form				100 100
	10A, 150VDC			100x10 ³
	1A, 300VDC			100x10 ³
	2.5 A, 170 VDC, res	sistive		100x10 ³
KUEP, 2 form				
	5 A, 150 VDC			
	2.5 A, 170 VDC, res	sistive		100x10 ³
KUEP, 2 form				
	3 A, 150 VDC			_
	2.5 A, 170 VDC, res	sistive		100x10 ³
	10 A, 240 VAC			
	10 A, 32 VDC			
	5 FLA, 15 LRA, 250) VAC		
	1/3 HP, 120 VAC			
	5 A, 120 VAC, tung	sten		
	1/2 HP, 250 VAC			
	0.5 A, 125 VDC			
	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 ³
KUEP, 2 form				
, ,	5 A, 150 VDC, resis	stive		100x10 ³
KUEP, 2 form				
, ,	3 A, 150 VDC, resis	stive		100x10 ³
Mechanical er			0 ⁶ ops.	

			6 to 240VAC			
Coil insul	ation system ac	cording UL	Class B			
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		
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	2 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

	510113, AO COII			
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	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 _{rms}	
between contact and coil	2200V _{rms}	
between adjacent contacts	2200V _{rms}	
Initial insulation resistance		
between insulated elements	100MΩ	

03-2015, Rev. 0315 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.

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



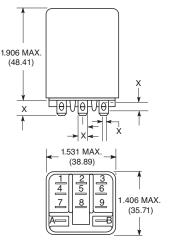
KUEP Series Panel Plug-in Relay (Continued)

Other Data

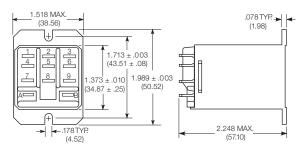
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content						
refer to the Product Compliance Support Center at						
www.te.com/c	ustomersupport/rohssupportcenter					
Ambient temperature						
DC coil	-45°C to 70°C					
AC coil	1 pole: -45°C to 55°C					
	2 pole: -45°C to 45°C					
Category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



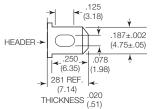
Top flange case



X Is For Terminal Dimensions. See Teminal Drawings.

Terminal dimensions

4.75mm (.187) quick connect



03-2015, Rev. 0315 www.te.com © 2015 Tyco Electronics Corporation, a TE Connectivity Ltd. company

2

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 -

(7.24)

316 REE

(8.03)

THICKNESS

-

HEADER →

.093 (2.36)

(.89)

.032

(.81)

.205±.002

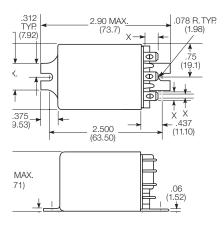
(5.21±.05)

Other Data (Continued)

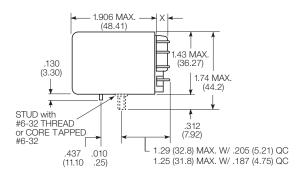
vveigni	oby
Packaging/unit	tray/25 pcs., box/150pcs.

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)

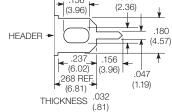
Bracket mount case



Core / stud mount case



1.19mm (.047) printed circuit



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.



KUEP Series Panel Plug-in Relay (Continued)

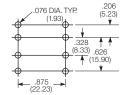
PCB layout

Bottom view on solder pins

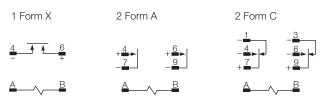
1 form X version

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





Terminal assignment



Load polarity noted above is recommended for optimum arc suppression.

Prod	uct	code structure				Typical product code KUEP -3	Α	1	5	-120
Туре										
		JEP Enclosed relay with magnetic blow-o	uts							
Conta	ct a	rrangement and rating								
	3	1 form X (1 NO-DM)	7	2 form A (2 N	D)					
	11	2 form C (2 CO)								
Coil In	put	1					_			
	Α	AC, 50/60Hz	D	DC						
Mount	ting	and options								
	1	Socket mount (plain) case			3	Socket mount (plain) case, with indicator	lamp 1)			
	5	Bracket mount case			Α	Plain case with #6-32 stud and locating t	ab			
	Е	Plain case with #6-32 tapped core and	ocatin	g tab	Т	Top flange case				
	1)	Indicator lamps are available on models v	ith the	following coils:	6-24	VAC and VDC, 110VDC and 120-240VAC.				
	(Only models with 120-240VAC coils are U	_ reco	gnized.						
Termin	nal	and contact material							-	
	5	4.75mm (.187in) quick connect/solder;	AgCdC)	6	5.21mm (.205in) quick connect/solder; A	.gCdO			
	7	1.19mm (.047in) PCB, AgCdO			Ρ	4.75mm (.187in) quick connect/solder; A	gSnOlnO			
	R	5.21mm (.205in) quick connect/solder;	AgSnC	InO	S	1.19mm (.047in) PCB, AgSnOInO				
Coil ve	olta	ge								
	Сс	il 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

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

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. 3