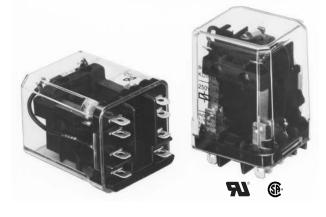


KUIP/KUGP Series Panel Plug-in Relay

- 10 amp rated relays
- 2 Form A (NO) and 1-3 Form C (CO) contact arrangement
- KUIP 8mm coil-to-contact spacing and KUGP 3mm contact gap
- Various mounting and socket styles



Coil versions, DC coil

Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VDC	VDC	Ω±10%	W
KUIP				
5	5	3.75	21	1.2
6	6	4.5	32.1	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
KUGP				
5	5	3.75	14	1.8
6	6 6		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

	50113, AO COI			
Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VAC	VAC $\Omega \pm 15\%$		VA
KUIP 1 a	and 2 pole			
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
KUIP 3 pole, KUGP				
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	102.0 1700	
240	240	204.0	2.9	

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

Insulation Data	KUIP	KUGP
Initial dielectric strength		
between open contacts	1200V _{rms}	3500V _{rms}
between contact and coil	2200V _{rms}	3750V _{rms}
between adjacent contacts	2200V _{rms}	3750V _{rms}
Initial insulation resistance		
between insulated elements 100MΩ, 500\		

Typical applications Voltage control units

Approvals

UL E22575; CS	SA LR15734		
Technical data of a	approved types on reque	est	
Contact Da	ta		
Contact arrang			
KUGP:	2 form A (NO); 3	form A (NO)	
KUIP:			C (CO), 3 form C (CC
Rated voltage	1 101111 0 (00), 2		VAC
Rated current)A
Contact materi	al	Ag	AgCdO
	ded contact load	100mA, 12VDC	300mA, 12VDC
Frequency of o		360 ops./hour	360 ops./hour
Operate/releas		20/15ms	000 0p3./11001
Bounce time m		20/13/13 20ms	
Dounce time n	ldX.	201115	
Contact rating	ne		
Type	Load		Cycle
UL 508			-)
Ag			
	5A, 240VAC		
	5A, 28VDC		
	1/6HP, 120VAC		
	2.5A, 120VAC, tur	acton	
		Igsteri	
	1/3HP, 240VAC		
	0.5A, 120VDC		
A =: O = O	5FLA, 15LRA, 250	JVAC	
AgCdO	104 0401/40		
	10A, 240VAC		
	10A, 32VDC		
	5FLA, 15LRA, 250	IVAC	
	1/3HP, 120VAC		
	5A, 120VAC, tung	sten	
	1/2HP, 250VAC		
	0.5A, 125VDC		
	10FLA, 40LRA, 12	25VAC	
	3A, 600VAC	-	
	1/2HP, 480VAC		
	1/2HP, 600VAC		
	1HP, 480VAC, 3 p	hase	
Mechanical endurance			⁶ ops.
		10/10	
Coil Data			
Coil voltage range			10VDC
			40VAC
Coil insulation	system according UI	L Clas	ss B

08-2011, Rev. 0811 www.te.com © 2011 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.

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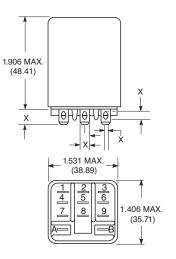
KUIP/KUGP Series Panel Plug-in Relay (Continued)

Other Data

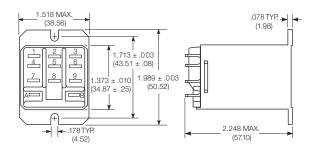
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content						
refer to the Product Compliance Support Center at						
www.te.com/customersupport/rohssupportcenter						
Ambient temperature						
DC coil	KUIP: -45°C to 95°C					
	KUGP: -45°C to 75°C (1 & 2 pole)					
AC coil	KUIP: -45°C to 70°C					
	KUGP: -45°C to 70°C (1 & 2 pole)					
Category of environmental protection						
IEC 61810 RTI - dust protected						
Terminal type	Quick connects (QC) .187					
	PCB-THT					
Terminal retention, push force	25 lbs for 3s					
Weight	85g					
Packaging/unit	tray/25 pcs., box/150pcs.					

Dimensions

Plain case



Top flange case

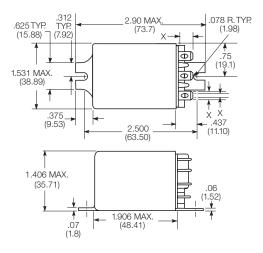


X Is For Terminal Dimensions. See Teminal Drawings.

Accessories

For details see datasheet		Sockets and Accessories, KUP Relays
Product Code	Description	
27E893	DIN socket (use 20	DC318 clip)
27E121	Track mount socke	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)

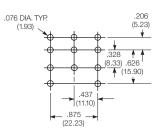
Bracket mount case



PCB layout

Bottom view on solder pins

3 Form C shown Omit unneessary holes for other contact forms



2

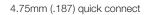
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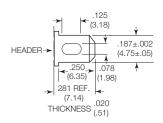
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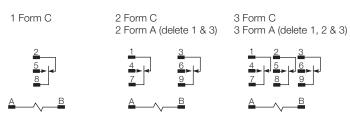
KUIP/KUGP Series Panel Plug-in Relay (Continued)

Terminal dimensions

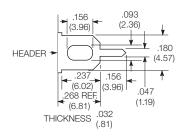




Terminal assignment



1.19mm (.047) printed circuit



Product code structure	Typical product code KUIP -5 A	5	5	-120
Туре				
KUIP Enclosed relay with 8mm contact to	oil spacing			
KUGP Enclosed relay with 3mm open conta	t spacing and 8mm contact to coil spacing (form A only)			
Contact arrangement and rating				
5 1 form C (1 CO) 1)	7 2 form A (2 NO)			
11 2 form C (2 CO) 1)	12 3 form A (3 NO)			
14 3 form C (3 CO) 1)				
1) not available on KUGP type				
Coil Input				
A AC, 50/60Hz	D DC			
Mounting and options				
 Socket mount (plain) case 	5 Bracket mount case			
T Top flange case				
Terminal and contact material			_	
3 1.19mm (.047in) PCB, Ag	5 4.75mm (.187in) quick connect/solder; AgCdO			
7 1.19mm (.047in) PCB, AgCdO				
Coil voltage				-
Coil code: please refer to coil versions table				

Product Code	Arrangement	Material	Coil	Terminals	Mounting	Part Number
KUGP-7D55-24	2 Form A, 2 NO	AgCdO	24 VDC	4.75mm (.187in) QC	Bracket mount case	2-1393114-4
KUIP-5A55-120	1 Form C; 1 CO		120 VAC			2-1393115-0
KUIP-11D55-12	2 Form C; 2 CO		12 VDC			1-1393115-0
KUIP-11D55-24			24 VDC			1-1393115-1
KUIP-14A15-120	3 Form C; 3 CO		120 VAC		Socket mount, plain case	1-1393115-4
KUIP-14D15-12			12 VDC			1-1393115-6
KUIP-14D15-24			24 VDC			1-1393115-7

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