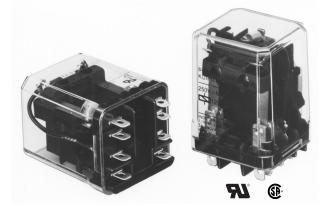


KUIP/KUGP Series Panel Plug-in Relay

- 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	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 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	Ω±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	oole, 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	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	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, 500VE			

Typical applications Voltage control units

Approvals

	CSA LR15734				
Technical data	of approved types on reque	est			
Contact D	ata				
Contact arra					
KUGP:	2 form A (NO); 3	form A (NO)			
KUIP:			C (CO), 3 form C (CC		
Rated voltag		240			
Rated curren		10A			
Contact mate		Ag	AgCdO		
Min recomm	ended contact load	100mA, 12VDC	300mA, 12VDC		
Frequency of		360 ops./hour	360 ops./hour		
	ases time max.	20/15ms	•		
Bounce time	max.	20ms			
Contact rat	-				
Туре	Load		Cycle		
UL 508					
Ag	54 0 10 14 0				
	5A, 240VAC				
	5A, 28VDC				
	1/6HP, 120VAC				
	2.5A, 120VAC, tun	gsten			
	1/3HP, 240VAC				
	0.5A, 120VDC				
	5FLA, 15LRA, 250	VAC			
AgCdO					
	10A, 240VAC				
	10A, 32VDC				
	5FLA, 15LRA, 250	VAC			
	1/3HP, 120VAC				
	5A, 120VAC, tungs	sten			
	1/2HP, 250VAC				
	0.5A, 125VDC				
	0.5A, 125VDC 10FLA, 40LRA, 12	5VAC			
		5VAC			
	10FLA, 40LRA, 12	5VAC			
	10FLA, 40LRA, 12 3A, 600VAC	5VAC			
	10FLA, 40LRA, 12 3A, 600VAC 1/2HP, 480VAC				
Mechanical 6	10FLA, 40LRA, 12 3A, 600VAC 1/2HP, 480VAC 1/2HP, 600VAC 1HP, 480VAC, 3 pt		⁶ ops.		
Mechanical e	10FLA, 40LRA, 12 3A, 600VAC 1/2HP, 480VAC 1/2HP, 600VAC 1HP, 480VAC, 3 pt	nase	⁶ ops.		
	10FLA, 40LRA, 12 3A, 600VAC 1/2HP, 480VAC 1/2HP, 600VAC 1HP, 480VAC, 3 pt	nase	⁶ ops.		
Mechanical e Coil Data	10FLA, 40LRA, 12 3A, 600VAC 1/2HP, 480VAC 1/2HP, 600VAC 1/2HP, 600VAC 1HP, 480VAC, 3 pt endurance	nase 10x10	·		
	10FLA, 40LRA, 12 3A, 600VAC 1/2HP, 480VAC 1/2HP, 600VAC 1/2HP, 600VAC 1HP, 480VAC, 3 pt endurance	nase 10x10 6 to 11	·		

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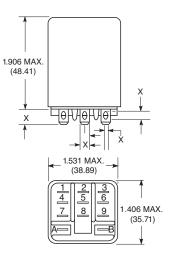
KUIP/KUGP Series Panel Plug-in Relay (Continued)

Other Data

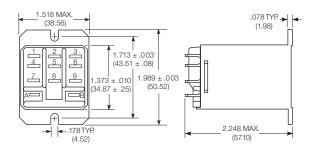
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen conter refer to the Product Compliance Support Center at					
www.te.com/customersupport/rohssupportcenter					
Ambient temperature					
DC coil	KUIP: -45°C to 95°C				
	KUGP: -45°C to 75°C (1 & 2 pole)				
AC coil	KUIP: -45°C to 70°C				
	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

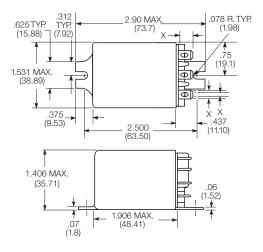


X Is For Terminal Dimensions. See Teminal Drawings.

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/sol	lder eyelet socket (use 20C254 clip)
27E046	Chassis mount/PC	CB socket (use 20C254 clip)
27E067	Chassis mount/qu	ick connect socket (use 20C254 clip)
27E396	Snap-in/quick con	nect socket (use 20C254 clip)

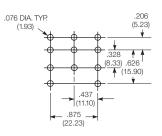
Bracket mount case



PCB layout

Bottom view on solder pins

3 Form C shown Omit unneessary holes for other contact forms



2

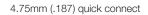
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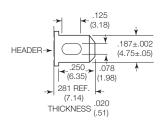
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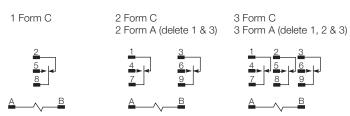
KUIP/KUGP Series Panel Plug-in Relay (Continued)

Terminal dimensions

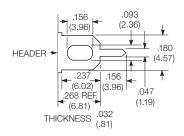




Terminal assignment



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				
	ict 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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