

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

Typical applications
 Voltage control units


Approvals

UL E22575; CSA LR15734
 Technical data of approved types on request

Contact Data

Contact arrangement				
KUGP: 2 form A (NO); 3 form A (NO)				
KUIP: 1 form C (CO), 2 form A (NO), 2 form C (CO), 3 form C (CO)				
Rated voltage 240VAC				
Rated current 10A				
Contact material Ag AgCdO				
Min recommended contact load	100mA, 12VDC	300mA, 12VDC		
Frequency of operation	360 ops./hour	360 ops./hour		
Operate/releases time max.	20/15ms			
Bounce time max.	20ms			

Contact ratings

Type	Load	Cycles
UL 508		
Ag	5A, 240VAC 5A, 28VDC 1/6HP, 120VAC 2.5A, 120VAC, tungsten 1/3HP, 240VAC 0.5A, 120VDC 5FLA, 15LRA, 250VAC	
AgCdO	10A, 240VAC 10A, 32VDC 5FLA, 15LRA, 250VAC 1/3HP, 120VAC 5A, 120VAC, tungsten 1/2HP, 250VAC 0.5A, 125VDC 10FLA, 40LRA, 125VAC 3A, 600VAC 1/2HP, 480VAC 1/2HP, 600VAC 1HP, 480VAC, 3 phase	
Mechanical endurance	10x10 ⁶ ops.	

Coil Data

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

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power 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

Coil code	Rated voltage VAC	Operate voltage VAC	Coil resistance $\Omega \pm 15\%$	Rated coil power VA
KUIP 1 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	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	100M Ω	500VDC

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
AC coil	KUGP: -45°C to 75°C (1 & 2 pole)
	KUIP: -45°C to 70°C
	KUGP: -45°C to 70°C (1 & 2 pole)

Category of environmental protection

IEC 61810	RTI - dust protected
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Terminal type

Quick connects (QC) .187
PCB-THT

Terminal retention, push force

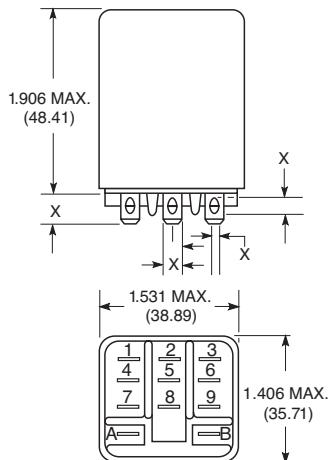
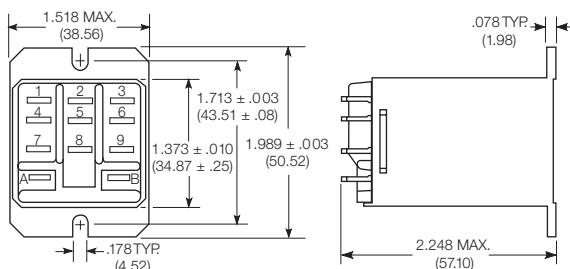
25 lbs for 3s

Weight

85g

Packaging/unit

tray/25 pcs., box/150pcs.

Dimensions
Plain case

Top flange case


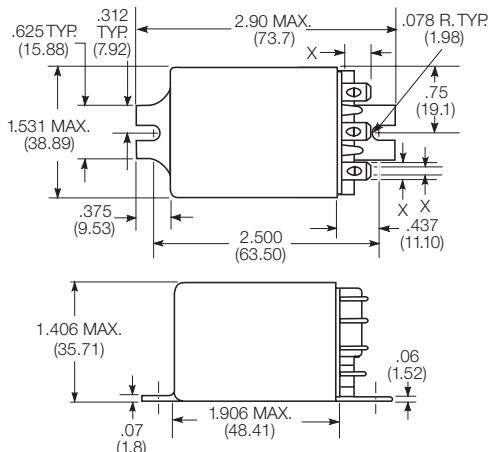
X Is For Terminal Dimensions.
See Terminal Drawings.

Accessories

For details see datasheet

Sockets and Accessories, KUP Relays

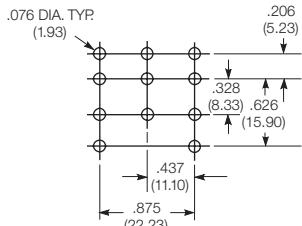
Product Code	Description
27E893	DIN socket (use 20C318 clip)
27E121	Track mount socket (use 20C314 clips)
27E043	Chassis mount/solder eyelet socket (use 20C254 clip)
27E046	Chassis mount/PCB socket (use 20C254 clip)
27E067	Chassis mount/quick connect socket (use 20C254 clip)
27E396	Snap-in/quick connect socket (use 20C254 clip)

Bracket mount case

PCB layout

Bottom view on solder pins

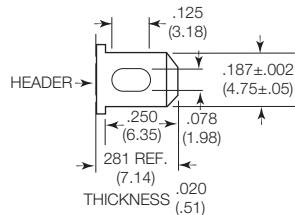
3 Form C shown

Omit unnecessary holes for other contact forms

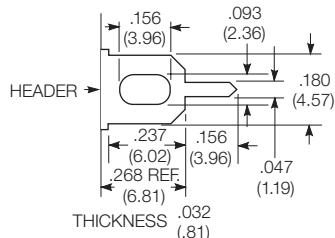


KUIP/KUGP Series Panel Plug-in Relay (Continued)
Terminal dimensions

4.75mm (.187) quick connect



1.19mm (.047) printed circuit


Terminal assignment

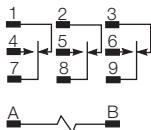
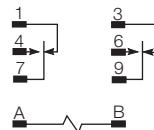
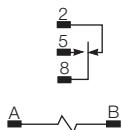
1 Form C

2 Form C

2 Form A (delete 1 & 3)

3 Form C

3 Form A (delete 1, 2 & 3)


Product code structure

Typical product code

KUIP
-5
A
5
5
-120
Type
KUIP Enclosed relay with 8mm contact to coil spacing

KUGP Enclosed relay with 3mm open contact 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
1 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

Mouser Electronics

Authorized Distributor

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[8-1423996-4](#)