

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
 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 arrangement	1 form X (NO-DM), 2 form A (NO), 2 form C (CO)	
Rated voltage	150VDC	
Rated current	10A	
Contact material	AgCdO	AgSnOInO
Min. recommended contact load	300mA, 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, AgCdO		
10A, 150VDC	100x10 ³	
1A, 300VDC	100x10 ³	
2.5 A, 170 VDC, resistive	100x10 ³	
KUEP, 2 form A, AgCdO		
5 A, 150 VDC		
2.5 A, 170 VDC, resistive	100x10 ³	
KUEP, 2 form C, AgCdO		
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 VAC		
5 A, 120 VAC, tungsten		
1/2 HP, 250 VAC		
10 FLA, 40 LRA, 125 VAC		
3 A, 600 VAC		
1/2 HP, 480 VAC		
1/2 HP, 600 VAC		
1 HP, 480 VAC, 3 phase		
KUEP, 1 form X, AgSnOInO		
10A, 150VDC, resistive	30x10 ³	
KUEP, 2 form A, AgSnOInO		
5 A, 150 VDC, resistive	100x10 ³	
KUEP, 2 form C, AgSnOInO		
3 A, 150 VDC, resistive	100x10 ³	
Mechanical endurance	10x10 ⁶ ops.	

Coil Data

Coil voltage range	5 to 125VDC			
	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
One pole 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 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
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 code	Rated voltage VAC	Operate voltage VAC	Coil resistance $\Omega \pm 15\%$	Rated coil power VA
One pole 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 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	2200V _{rms}
between adjacent contacts	2200V _{rms}
Initial insulation resistance between insulated elements	
	100MΩ

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/customersupport/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	

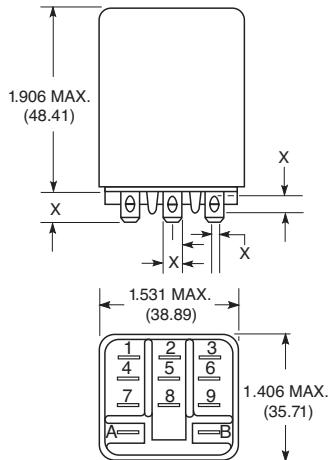
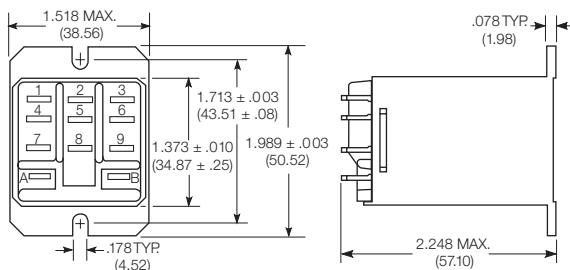
IEC 61810 RTI - dust protected

Vibration resistance (functional)	.065" double amplitude, 10-55Hz
Shock resistance (functional)	15g, 11ms (non-operating)

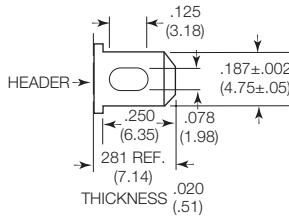
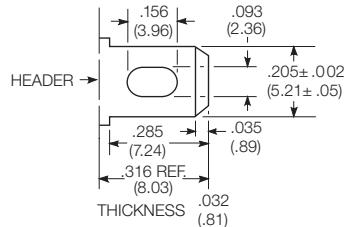
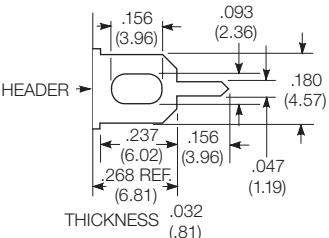
Terminal type	Quick connects (QC), .187 or .205 PCB-THT
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Terminal retention, push force

QC .205	17 lbs for 3s
QC .187	25 lbs for 3s

Dimensions
Plain case

Top flange case


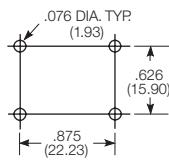
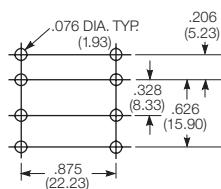
X Is For Terminal Dimensions.
See Terminal Drawings.

Terminal dimensions
4.75mm (.187) quick connect

5.21mm (.205) quick connect

1.19mm (.047) printed circuit


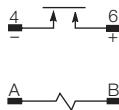
KUEP Series Panel Plug-in Relay (Continued)
PCB layout

Bottom view on solder pins

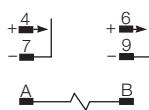
1 form X version


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

Terminal assignment

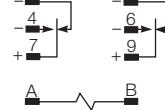
1 Form X



2 Form A



2 Form C



Load polarity noted above is recommended for optimum arc suppression.

Product code structure

 Typical product code **KUEP** -3 A 1 5 -120

Type
KUEP Enclosed relay with magnetic blow-outs

Contact arrangement and rating
3 1 form X (1 NO-DM)
11 2 form C (2 CO)

7 2 form A (2 NO)

Coil Input
A AC, 50/60Hz

D DC

Mounting and options
1 Socket mount (plain) case

3 Socket mount (plain) case, with indicator lamp ¹⁾
5 Bracket mount case

A Plain case with #6-32 stud and locating tab

E Plain case with #6-32 tapped core and locating tab

T Top flange case

1) Indicator lamps are available on models with the following coils: 6-24VAC and VDC, 110VDC and 120-240VAC.

Only models with 120-240VAC coils are UL recognized.

Terminal and contact material
5 4.75mm (.187in) quick connect/solder; AgCdO

6 5.21mm (.205in) quick connect/solder; AgCdO

7 1.19mm (.047in) PCB, AgCdO

P 4.75mm (.187in) quick connect/solder; AgSnOInO

R 5.21mm (.205in) quick connect/solder; AgSnOInO

S 1.19mm (.047in) PCB, AgSnOInO

Coil voltage

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 12 VDC 24 VDC 48 VDC 110 VDC 24 VDC	4.75mm (.187in) QC	Socket mount, plain case	9-1393113-4
KUEP-3D15-12						9-1393113-8
KUEP-3D15-24						1393114-1
KUEP-3D15-48						1393114-2
KUEP-3D15-110						9-1393113-7
KUEP-3D35-24					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 12 VDC 24 VDC 48 VDC 110 VDC			8-1393113-3
KUEP-11D15-12						8-1393113-6
KUEP-11D15-24						8-1393113-7
KUEP-11D15-48						8-1393113-8
KUEP-11D15-110						8-1393113-5

Mouser Electronics

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[6-1393123-4](#)