

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.	

Note: Indicated contact ratings and electrical endurance data apply only for direct wiring of the relay (according to UL 508/61810-1); for relays mounted on sockets, deratings may apply.

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	100M Ω

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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)

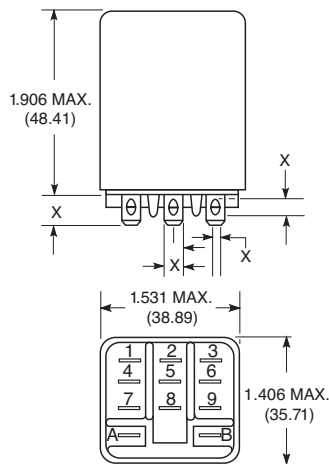
Terminal type Quick connects (QC), .187 or .205 PCB-THT

Terminal retention, push force

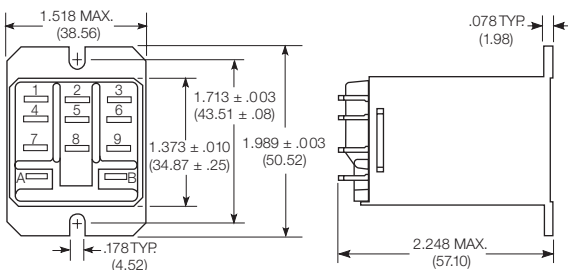
QC .205 17 lbs for 3s
QC .187 25 lbs for 3s

Dimensions

Plain case



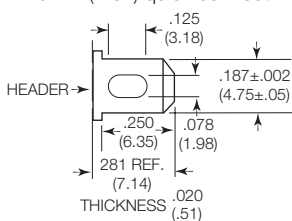
Top flange case



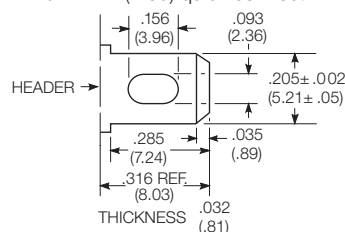
X Is For Terminal Dimensions.
See Terminal Drawings.

Terminal dimensions

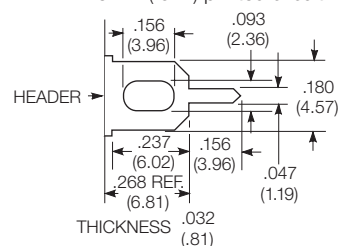
4.75mm (.187) quick connect



5.21mm (.205) quick connect



1.19mm (.047) printed circuit



Other Data (Continued)

Weight 85g
Packaging/unit tray/25 pcs., box/150pcs.

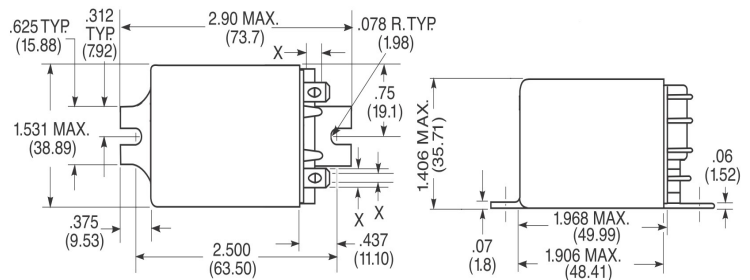
Accessories

For details see datasheet Sockets and Accessories, KUP Relays

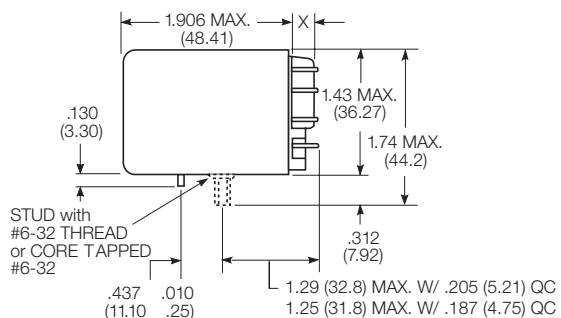
Product Code Description

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



Core / stud mount case

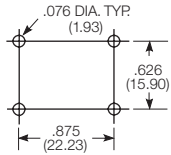


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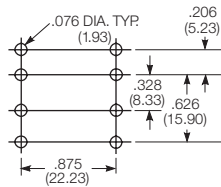
PCB layout

Bottom view on solder pins

1 form X version

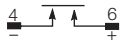


2 form C version shown
(Omit unnecessary holes for form A types)

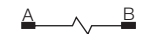


Terminal assignment

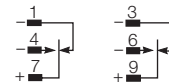
1 Form X



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) **7** 2 form A (2 NO)
11 2 form C (2 CO)

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	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			8-1393113-6
KUEP-11D15-24			24 VDC			8-1393113-7
KUEP-11D15-48			48 VDC			8-1393113-8
KUEP-11D15-110			110 VDC			8-1393113-5

Mouser Electronics

Authorized Distributor

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[KUEP-3D15-125](#)