POTTER & BRUMFIELD
KUEP SERIES PANEL PLUG-IN RELAY

GENERAL PURPOSE
INDUSTRIAL RELAYS

FEATURES

- 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



APPLICATIONS

- DC load switching in industrial controls

APPROVALS

- UL E22575
- CSA LR15734
- CE (KUEP-11 only)

Technical data of approved types on request

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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, with/without load	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 1A, 300VDC 2.5 A, 170 VDC, resistive	$100x10^3$ $100x10^3$ $100x10^3$
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 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	$100x10^3$
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 Ω±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 Ω±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.

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INSULATION DATA

Initial dielectric strength	
Between open contacts	1200 V_{rms}
Between contact and coil	2200 V_{rms}
Between adjacent contacts	2200 V_{rms}

Initial insulation resistance	
Between insulated elements	100 MΩ

ACCESSORIES

For details see datasheet	Sockets and Accessories, KUEP 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)

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	-45ºC to 70ºC
AC coil	1 pole: -45ºC to 55ºC 2 pole: -45ºC to 45ºC

Category of environmental protection	
IEC 61810	RTI - dust protected
Vibration resistance (functional)	.065” double amplitude, 10-55Hz
Shock resistance (functional)	15g, 11ms (non-operating)

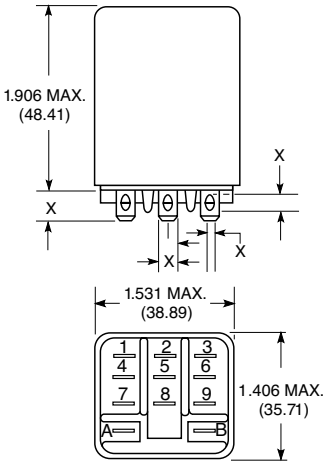
Terminal type	Quick connects (QC),.187 or .205 PCB-THT

Terminal retention, push force	
QC .205	17 lbs for 3s
QC .187	25 lbs for 3s

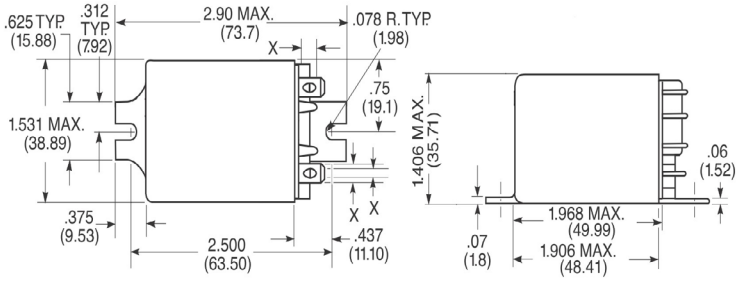
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DIMENSIONS (Unit mm)

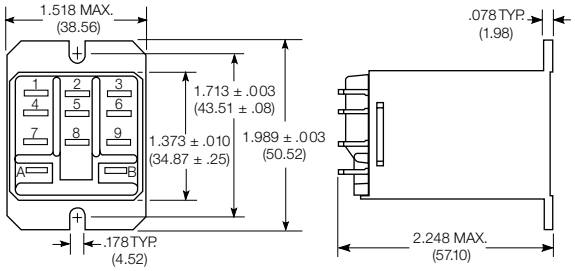
PLAIN CASE



BRACKET MOUNT CASE

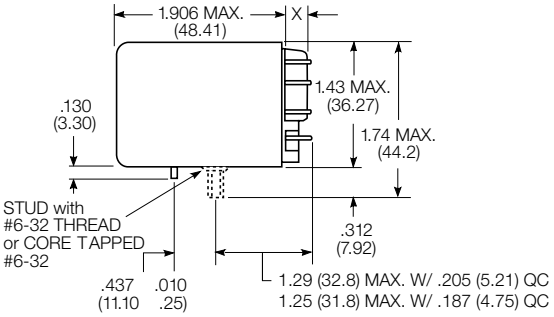


TOP FLANGE CASE



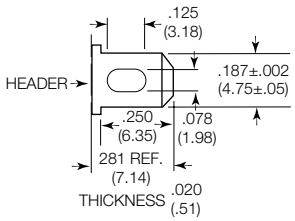
X Is For Terminal Dimensions.
See Teminal Drawings.

CORE / STUD MOUNT CASE

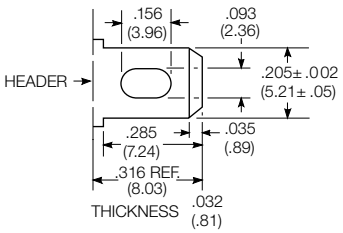


TERMINAL DIMENSIONS

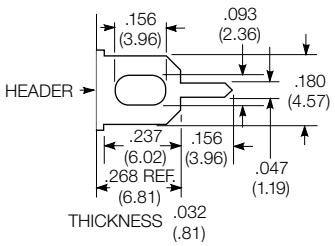
4.75MM (.187) QUICK CONNECT



5.21MM (.205) QUICK CONNECT



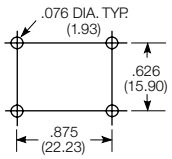
1.19MM (.047) PRINTED CIRCUIT



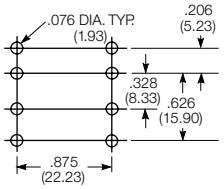
PCB LAYOUT

Bottom view on solder pins

1 form X version

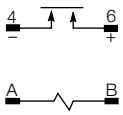


2 form C version shown
(Omit unnecessary holes
for form A types)

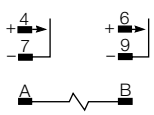


TERMINAL ASSIGNMENT

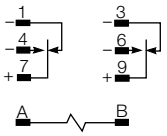
1 Form X



2 Form A



2 Form C



Load polarity noted above is recommended for optimum arc suppression.

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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

Coil voltage

Coil code	Please refer to coil versions table

Terminal and contact material

5	4.75mm (.187in) quick connect/ solder; AgCdO
7	1.19mm (.047in) PCB, AgCdO
R	5.21mm (.205in) quick connect/ solder; AgSnOInO
6	5.21mm (.205in) quick connect/ solder; AgCdO
P	4.75mm (.187in) quick connect/ solder; AgSnOInO
S	1.19mm (.047in) PCB, AgSnOInO

Mounting and options

1	Socket mount (plain) case
5	Bracket mount case
E	Plain case with #6-32 tapped core and locating tab
3	Socket mount (plain) case, with indicator lamp [1)]
A	Plain case with #6-32 stud 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.

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PRODUCT INFORMATION

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

Notes:

1. Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.
2. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions.
3. Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

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