

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	100x10 ³
	1A, 300VDC	100x10 ³
	2.5 A, 170 VDC, resistive	100x10 ³
KUEP, 2 form A, AgCdO	5 A, 150 VDC	100x10 ³
	2.5 A, 170 VDC, resistive	
KUEP, 2 form C, AgCdO	3 A, 150 VDC	100x10 ³
	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	
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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GENERAL PURPOSE INDUSTRIAL RELAYS

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
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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

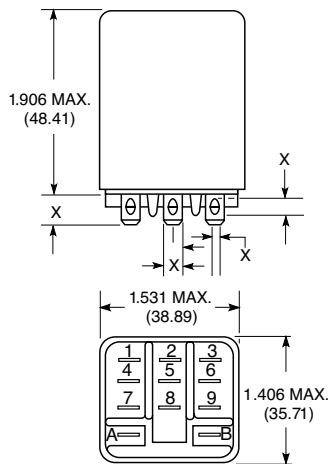
Material compliance	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter	
Ambient temperature		
DC coil	-45°C to 70°C	
AC coil	1 pole: -45°C to 55°C	
	2 pole: -45°C to 45°C	
Category of environmental protection		
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	

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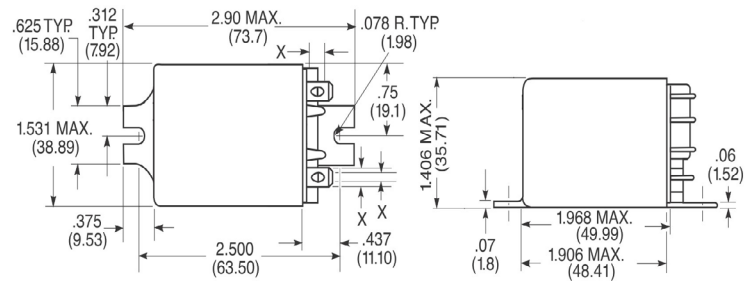
GENERAL PURPOSE INDUSTRIAL RELAYS

DIMENSIONS (Unit mm)

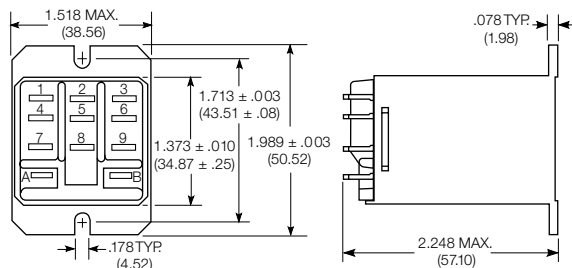
PLAIN CASE



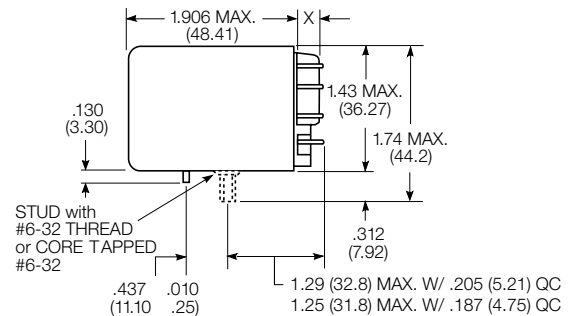
BRACKET MOUNT CASE



TOP FLANGE CASE



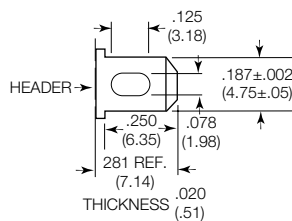
CORE / STUD MOUNT CASE



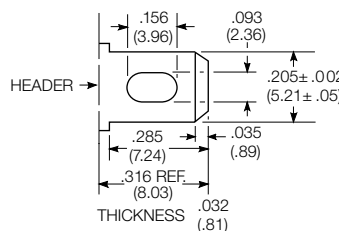
X Is For Terminal Dimensions.
See Terminal Drawings.

TERMINAL DIMENSIONS

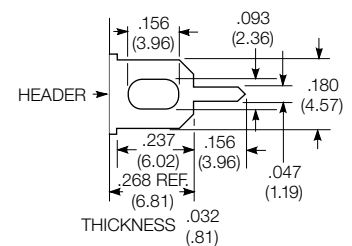
4.75MM (.187) QUICK CONNECT



5.21MM (.205) QUICK CONNECT



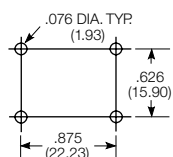
1.19MM (.047) PRINTED CIRCUIT



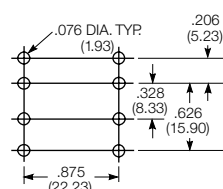
PCB LAYOUT

Bottom view on solder pins

1 form X version

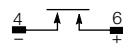


2 form C version shown
(Omit unnecessary holes
for form A types)

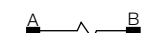


TERMINAL ASSIGNMENT

1 Form X



2 Form A



2 Form C

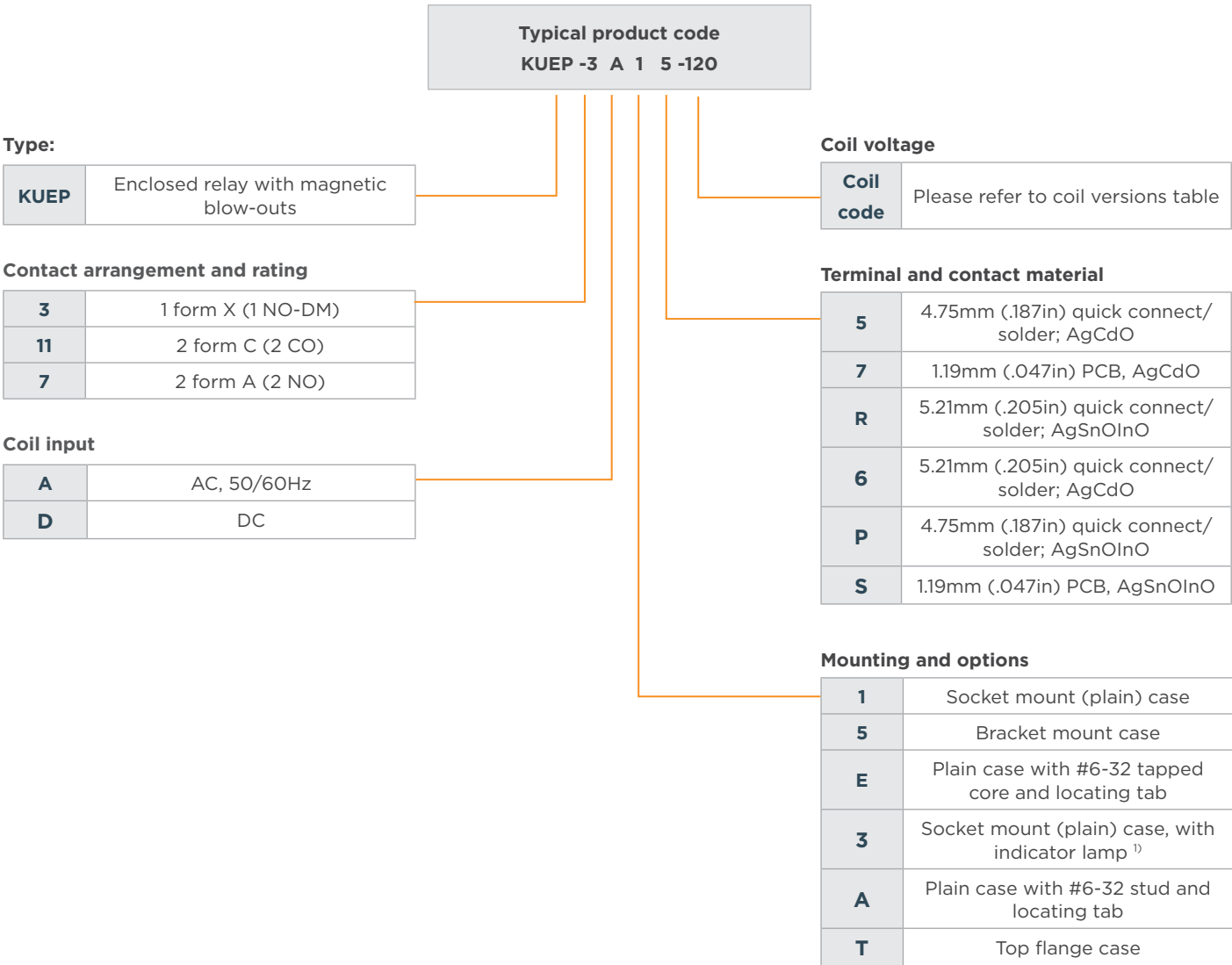


Load polarity noted above is recommended for optimum arc suppression.

POTTER & BRUMFIELD KUEP SERIES PANEL PLUG-IN RELAY

GENERAL PURPOSE INDUSTRIAL RELAYS

PRODUCT CODE STRUCTURE



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.

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	2 Form A, 2 NO		24 VDC		Socket mount, plain case w/ indicator lamp	1393114-5
KUEP-7D15-24						1-1393114-1
KUEP-11A15-120	2 Form C, 2 CO		120 VAC		Socket mount, plain case	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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