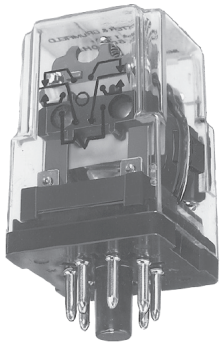
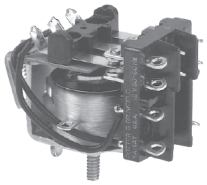
POTTER & BRUMFIELD
KRPA SERIES PANEL PLUG-IN RELAY

PANEL/PLUG-IN RELAYS

FEATURES

- 5 to 10A current capability
- Contact arrangements of 1, 2 and 3 form C (CO)
- Octal type termination for quick installation
- Indicator lamp available on certain models





APPLICATIONS

- Baggage handling
- Lighting
- Inspection equipment
- Marine

APPROVALS

- UL E22575
- CSA LR15734

Technical data of approved types on request

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CONTACT DATA

Contact arrangement	1 form C (CO) 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

CONTACT RATINGS

Type	Load	Cycles
UL 508		
KRPA, Ag	5A, 120VAC 3A, 240VAC 1/10HP, 120VAC 1/6HP, 240VAC	$100x10^3$ $100x10^3$ $1x10^3$ $1x10^3$
KRPA, AgCdO	10A, 240VAC 1/3HP, 120VAC 1/2HP, 240VAC	$100x10^3$ $1x10^3$ $1x10^3$
KA, Ag	5A, 120VAC 3A, 240VAC 1/10HP, 120VAC 1/6HP, 240VAC	-
KA, AgCdO	10A, 120VAC 6A, 240VAC 1/6HP, 120VAC 1/3HP, 240VAC	-
Mechanical endurance	$10x10^6$ ops.	

COIL DATA

Coil voltage range	6 to 220VDC, 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
6	6	4.5	32	1.15
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	1.2
–	220	Use 110V relay with 10KΩ, 5W resistor in series		

COIL VERSIONS, AC COIL

Coil code	Rated voltage VAC	Operate voltage VAC	Coil resistance Ω±15%	Rated coil power VA
6	6	5.1	6	2.01
12	12	10.2	24	2.02
24	24	20.4	85	2.02
120	120	102.0	2250	2.1
240	240	204.0	9110	2.1

All figures are given for coil without preenergization, at ambient temperature +23°C

INSULATION DATA

Initial dielectric strength	
Between open contacts	1000 V_{rms}
Between contact and coil	1000 V_{rms}
Between adjacent contacts	1000 V_{rms}
Initial insulation resistance	
Between insulated elements	KRPA: 1000MΩ KA: 100MΩ

OTHER DATA

Material compliance	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at: Click here
Ambient temperature	
DC coil	KRPA: -45°C to 70°C KA: -45°C to 85°C
AC coil	KRPA: -45°C to 55°C KA: -45°C to 70°C
Category of environmental protection	
IEC 61810	RTI - dust protected KRPA and RT0 - open style KA
Terminal type	KRPA: 8- or 11-pin octal-type plug KA: solder terminals
Weight	85g
Packaging/unit	tray/25 pcs., box/150pcs.

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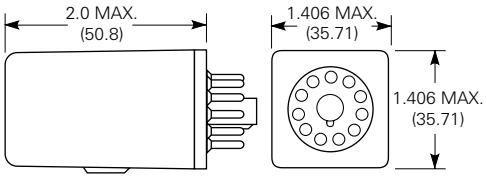
ACCESSORIES

For details see datasheet	Sockets and Accessories, KUP Relays

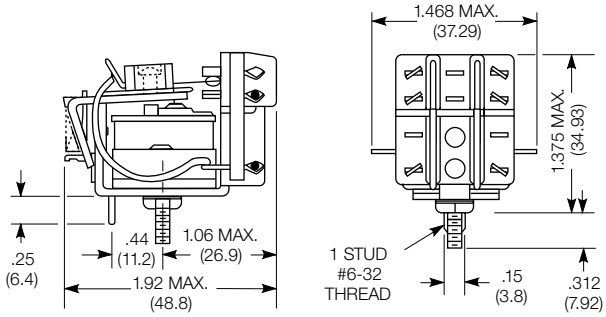
Product Code	Description
27E891	Two pole DIN socket (use 20C318 clip)
27E892	Three pole DIN socket (use 20C318 clip)
27E122	Two pole track mount socket (use 20C318 clip)
27E123	Three pole track mount socket (use 20C318 clip)

DIMENSIONS (Unit mm)

KRPA



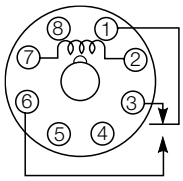
KA



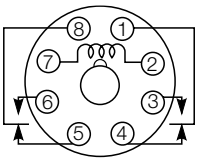
TERMINAL ASSIGNMENT

KRPA

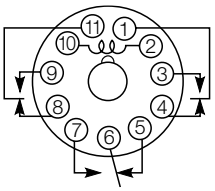
1 form C



2 form C

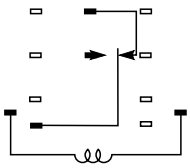


3 form C

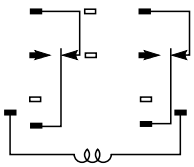


KA

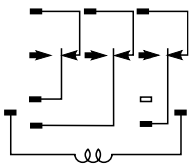
1 form C



2 form C



3 form C



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PRODUCT CODE STRUCTURE

Typical product code
KRPA -5 A Y -120

Type

KRPA	Enclosed relay with octal-style plug
KA	Open style relay with solder terminals

Contact arrangement and rating

5	1 form C (CO)
14	3 form C (CO)
11	2 form C (CO)

Coil input

A	AC, 50/60Hz
D	DC

Coil voltage

Coil code: please refer to coil versions table

Options

Leave blank	no additional options
F	Au flashed contacts (Options F and P only available with relay type KRPA)
P	Push to test button

Contact material and indicator lamp option

Y	Ag, no indicator lamp
N	AgCdO, with indicator (Code N only available with relay type KRPA)
G	AgCdO, no indicator lamp

PRODUCT INFORMATION

Product Code	Arrangement	Contact Material	Coil	Option	Part Number
KRPA-5AG-24	1 form C, 1 CO	AgCdO	24VAC	None	9-1393104-9
KRPA-5AG-120			120VAC		9-1393104-8
KRPA-5DG-12			12VDC		1393105-3
KRPA-5DY-24		Ag	24VDC		1393105-7
KRPA-11AG-24	2 form C, 2 CO	AgCdO	24VAC		1-1393105-2
KRPA-11AG-120			120VAC		2-1393104-5
KRPA-11AG-240			240VAC		2-1393104-7
KRPA-11AN-24			24VAC	Indicator	3-1393104-3
KRPA-11AN-120			120VAC		3-1393104-2
KRPA-11AN-240			240VAC		3-1393104-4
KRPA-11AY-12		Ag	12VAC	None	3-1393104-5
KRPA-11AY-24			24VAC		3-1393104-7
KRPA-11AY-120			120VAC		3-1393104-6
KRPA-11AY-240			240VAC		3-1393104-8
KRPA-11DG-6		AgCdO	6VDC		4-1393104-7
KRPA-11DG-12			12VDC		4-1393104-3
KRPA-11DG-24			24VDC		4-1393104-5

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Product Code	Arrangement	Contact Material	Coil	Option	Part Number
KRPA-11DG-48	2 form C, 2 CO	AgCdO	48VDC	None	4-1393104-6
KRPA-11DG-110			110VDC		4-1393104-2
KRPA-11DG-125			125VDC		4-1393104-4
KRPA-11DG-24			24VDC		4-1393104-5
KRPA-11DG-48			48VDC		4-1393104-6
KRPA-11DN-12			12VDC	Indicator	5-1393104-0
KRPA-11DN-24			24VDC		5-1393104-1
KRPA-11DN-110			110VDC		4-1393104-9
KRPA-11DY-12		Ag	12VDC	None	5-1393104-6
KRPA-11DY-24			24VDC		5-1393104-7
KRPA-14AG-12	3 form C, 3 CO	AgCdO	12VAC		6-1393104-4
KRPA-14AG-24			24VAC		6-1393104-7
KRPA-14AG-120			120VAC		6-1393104-5
KRPA-14AG-240			240VAC		6-1393104-8
KRPA-14AN-24			24VAC	Indicator	7-1393104-4
KRPA-14AN-120			120VAC		7-1393104-3
KRPA-14AN-240			240VAC		7-1393104-5
KRPA-14AY-24		Ag	24VAC	None	7-1393104-8
KRPA-14AY-120			120VAC		7-1393104-7
KRPA-14AY-240			240VAC		7-1393104-9
KRPA-14DG-12		AgCdO	12VDC		8-1393104-2
KRPA-14DG-24			24VDC		8-1393104-4
KRPA-14DG-48			48VDC		8-1393104-5
KRPA-14DG-110			110VDC		8-1393104-1
KRPA-14DG-125			125VDC		8-1393104-3
KRPA-14DN-24			24VDC	Indicator	9-1393104-0
KRPA-14DY-24		Ag	-	None	9-1393104-3

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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