![TE connectivity logo]

KRPA-11DY-12 Product Details

KRPA-11DY-12

TE Internal Number: 5-1393104-6

✔ Active

Industrial Relays (General Purpose)

🌿 Converted to EU RoHS but not ELV Compliant

(Statement of Compliance)

Product Highlights:
- KRPA Series
- Contact - Current Class = 5A to 10A Class, Less Than 16A
- Contact - Rated Current = 10 A
- Terminal Type = Plug-in
- Contact - Arrangement = 2 Form C (CO)

Documentation & Additional Information

Product Drawings:
- None Available

Catalog Pages/Data Sheets:
- KRPA, KRP, KA, KR 5 to 10 Amp General Purpose Relay (PDF, English)

Product Specifications:
- None Available

Application Specifications:
- None Available

Instruction Sheets:
- None Available

CAD Files:
- None Available

Additional Information:
- Product Line Information

Additional Product Images:
- Schematic
- Wiring Diagram

Related Products:
- Tooling

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:
- Series = KRPA
- Terminal Type = Plug-in

Electrical Characteristics:
- Contact - Current Class = 5A to 10A Class, Less Than 16A
- Contact - Rated Current (A) = 10
- Contact - Limiting Continuous Current (A) = 10
- Contact - Limiting Making Current (A) = 10
- Contact - Limiting Breaking Current (A) = 10
- Insulation - Initial Dielectric Between Coil/Contact Class = 500V to 1000V Class
- Insulation - Initial Dielectric Between Open Contacts (V rms) = 1000
- Insulation - Initial Dielectric Between Contacts and Coil (V rms) = 1000
- Contact - Rated Voltage (VAC) = 240
- Contact - Limiting Short-Time Current (A) = 10
- Contact - Switching Recommended Load, Min. = 100mA at 12V
- Coil - Rated Voltage (VDC) = 12
- Coil - Resistance (Ω) = 120
- Coil - Rated Power, DC (mW) = 1200
- Coil - Rated Power Class = 1W to 1.5W Class
- Insulation - Initial Dielectric Between Adjacent Contacts (V rms) = 1000
- Insulation - Initial Insulation Resistance (MΩ) = 1000000

Dimensions:
- Mechanical - Length Class = 35mm to 40mm Class
- Length (mm [in]) = 35.70 [1.406]
- Mechanical - Width Class = 30mm to 40mm Class
- Width (mm [in]) = 35.70 [1.405]
- Mechanical - Height Class = >50mm Class
- Height (mm [in]) = 50.80 [2.000]

Body Features:
- Mount Type = Socket
- Weight (g [oz]) = 85.00 [2.988]

Contact Features:
- Contact Material = Ag
- Contact - Number of Poles = 2

Configuration Features:
- Contact - Arrangement = 2 Form C (CO)
- Coil - Magnetic System = Monostable, DC
- Coil - Special Features = UL Coil Insulation Class B

Industry Standards:
- RoHS/ELV Compliance = RoHS/Not ELV Compliant
- Lead Free Solder Processes = Not relevant for lead free process
- RoHS/ELV Compliance History = Converted to comply with RoHS not ELV directives
- Approved/Registered Standards = UL, CSA

Environmental:
- Environmental - Category of Protection = RTI
- Environmental - Ambient Temperature, Max. (°C [°F]) = 70 [158]
- Environmental - Ambient Temperature Class = 50°C to 70°C Class
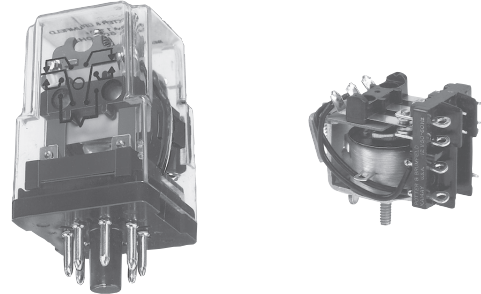
Packaging Features:
- Packaging Method = Tray

Other:
- Brand = Potter & Brumfield
- Accessories/Socket Type = Track mount Socket, DIN-rail Socket

KRPA Series Panel Plug-in Relay

- **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**

Typical applications
Baggage handling, lighting, inspection equipment, marine.

Approvals
UL E22575; CSA LR15734
Technical data of approved types on request.

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	100x10³
	3A, 240VAC	100x10³
	1/10HP, 120VAC	1x10³
	1/6HP, 240VAC	1x10³
KRPA, AgCdO		
	10A, 240VAC	100x10³
	1/3HP, 120VAC	1x10³
	1/2HP, 240VAC	1x10³
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	10x10⁶ 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		

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

Coil Data (continued)
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
20	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	$1000V_{rms}$
between contact and coil	$1000V_{rms}$
between adjacent contacts	$1000V_{rms}$
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
www.te.com/customersupport/rohssupportcenter

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.

Accessories

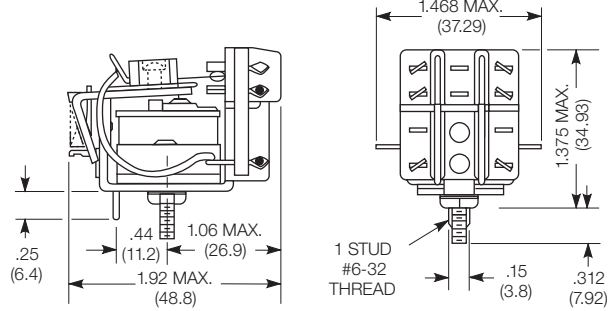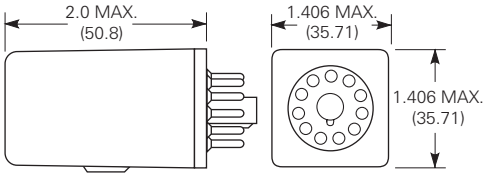| For details see datasheet	Sockets and Accessories, KRPA Relays

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)

KRPA Series Panel Plug-in Relay (Continued)

Dimensions

KRPA

2.0 MAX.
(50.8)

1.406 MAX.
(35.71)

1.406 MAX.
(35.71)

KA

1.468 MAX.
(37.29)

1.375 MAX.
(34.93)

.25
(6.4)

.44
(11.2)

1.06 MAX.
(26.9)
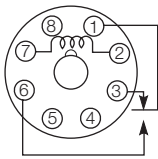
1.92 MAX.
(48.8)

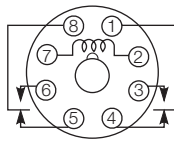1 STUD
#6-32
THREAD

.15
(3.8)
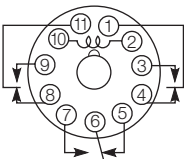
.312
(7.92)

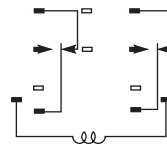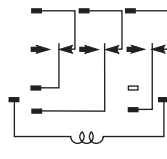### Terminal assignment

KRPA
1 form C

KRPA
2 form C

KRPA
3 form C

KA
1 form C
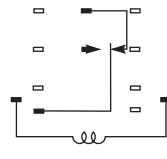
KA
2 form C

KA
3 form C

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)	**11** 2 form C (CO)
14	3 form C (CO)	

Coil Input

A	AC, 50/60Hz	**D** DC

Contact material and indicator lamp option

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

Options

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

Coil voltage

Coil code: please refer to coil versions table

KRPA Series Panel Plug-in Relay (Continued)

Product Code	Arrangement	Contact Material	Coil	Option	Part Number
KA-5AG-120	1 form C, 1 CO	AgCdO	120VAC	Open style	7-1393099-1
KA-5AY-120		Ag			7-1393099-3
KA-5DG-6		AgCdO	6VDC		7-1393099-9
KA-5DG-12			12VDC		7-1393099-7
KA-5DG-110			110VDC		7-1393099-6
KA-11AG-120	2 form C, 2 CO		120VAC		3-1393099-6
KA-11AY-6		Ag	6VAC		4-1393099-1
KA-11AY-24			24VAC		4-1393099-0
KA-11AY-120			120VAC		3-1393099-9
KA-11DG-12		AgCdO	12VDC		4-1393099-3
KA-11DG-24			24VDC		4-1393099-5
KA-11DG-110			110VDC		4-1393099-2
KA-14AG-120	3 form C, 3 CO		120VAC		5-1393099-0
KA-14AY-120		Ag			5-1393099-4
KA-14DG-24		AgCdO	24VDC		5-1393099-7
KA-14DG-110			110VDC		5-1393099-5
KRPA-5AG-24	1 form C, 1 CO		24VAC	None	9-1393104-9
KRPA-5AG-120			120VAC		9-1393104-8
KRPA-5DG-6			6VDC		1393105-5
KRPA-5DG-12			12VDC		1393105-3
KRPA-5DG-24			24VDC		1393105-4
KRPA-5DY-12		Ag	12VDC		1393105-6
KRPA-5DY-24			24VDC		1393105-7
KRPA-11AG-6	2 form C, 2 CO	AgCdO	6VAC		2-1393104-8
KRPA-11AG-12			12VAC		2-1393104-4
KRPA-11AG-24			24VAC		1-1393105-2
KRPA-11AG-120			120VAC		2-1393104-5
KRPA-11AG-240			240VAC		2-1393104-7
KRPA-11AN-12			12VAC	Indicator	3-1393104-1
KRPA-11AN-24			24VAC		3-1393104-3
KRPA-11AN-120			120VAC		3-1393104-2
KRPA-11AN-240			240VAC		3-1393104-4
KRPA-11AY-6		Ag	6VAC	None	3-1393104-9
KRPA-11AY-12			12VAC		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
KRPA-11DG-48			48VDC		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