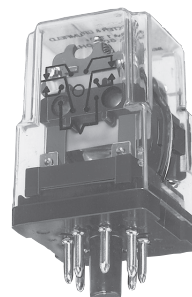


## KRPA Series Panel Plug-in Relay

- 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              |
|---------------------------|-------------------------|---------------------|
| <b>UL 508</b><br>KRPA, Ag | 5A, 120VAC              | 100x10 <sup>3</sup> |
|                           | 3A, 240VAC              | 100x10 <sup>3</sup> |
|                           | 1/10HP, 120VAC          | 1x10 <sup>3</sup>   |
|                           | 1/6HP, 240VAC           | 1x10 <sup>3</sup>   |
|                           |                         |                     |
| KRPA, AgCdO               | 10A, 240VAC             | 100x10 <sup>3</sup> |
|                           | 1/3HP, 120VAC           | 1x10 <sup>3</sup>   |
|                           | 1/2HP, 240VAC           | 1x10 <sup>3</sup>   |
|                           |                         |                     |
| 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 <sup>6</sup> 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 $\Omega \pm 10\%$ | 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 10K $\Omega$ , 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 $\Omega \pm 15\%$ | 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         |  | 1000V <sub>rms</sub>                      |
| between contact and coil      |  | 1000V <sub>rms</sub>                      |
| between adjacent contacts     |  | 1000V <sub>rms</sub>                      |
| Initial insulation resistance |  |                                           |
| between insulated elements    |  | KRPA: 1000M $\Omega$<br>KA: 100M $\Omega$ |

### Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.te.com/customer-support/rohssupportcenter](http://www.te.com/customer-support/rohssupportcenter)

|                                      |  |                                                            |
|--------------------------------------|--|------------------------------------------------------------|
| Ambient temperature                  |  |                                                            |
| DC coil                              |  | KRPA: -45°C to 70°C<br>KA: -45°C to 85°C                   |
| AC coil                              |  | KRPA: -45°C to 55°C<br>KA: -45°C to 70°C                   |
| Category of environmental protection |  |                                                            |
| IEC 61810                            |  | RTI - dust protected KRPA and<br>RTO - open style KA       |
| Terminal type                        |  | KRPA: 8- or 11-pin octal-type plug<br>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



KA

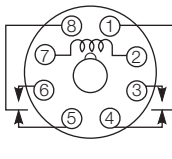


**Terminal assignment**

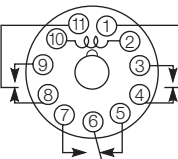
KRPA  
1 form C



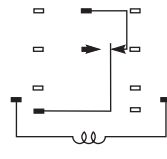
KRPA  
2 form C



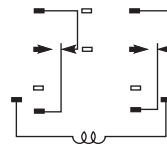
KRPA  
3 form C



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 |