

**Power PCB Relay RP II/2**

- 2 pole 8, 2 C/O or 2 N/O contacts
- 4 kV / 8 mm coil-contact
- Twin contacts available
- PCB-sockets
- RoHS compliant (Directive 2002 / 95 / EC) as per product date code 0404

**Applications**

Domestic appliances, UPS's



F0150-B

**Approvals**



Technical data of approved types on request

**Contact data**

|   |                                |
|---|--------------------------------|
| Configuration                             | 2 C/O contact or 2 N/O contact |
| Type of contact                           | single contact                 |
| Rated current                             | 8 A (UL: 10 A)                 |
| Rated voltage / max. breaking voltage AC  | 250 Vac / 440 Vac              |
| Maximum breaking capacity AC              | 2000 VA                        |
| Make current (max. 4 s at duty cycle 10%) | 14 A                           |
| Contact material                          | AgNi 0.15, AgCdO               |

**Contact ratings**

| Type  | Load   | Operations                  | Standard |
|-------|--|-----------------------------|----------|
| RP440 | 64 A ON, 2 A OFF, 250 Vac                    | 1x10 <sup>4</sup>           | VDE 0860 |
| RP421 | 2 A, 50 Vdc, resistive                       | approx. 2x10 <sup>6</sup>   |          |
| RP421 | 1/10hp, 240 Vac, per contact                 |                             | UL 508   |
| RP421 | 3 A, 380 Vac, AC11                           | approx. 3x10 <sup>4</sup>   | VDE 0660 |
| RP421 | 0.18 A, 110 Vdc, DC11                        | approx. 1x10 <sup>5</sup>   | VDE 0660 |
| RP420 | 0.6 A, 220 Vac, cosφ=0.8, single phase motor | approx. 1.3x10 <sup>6</sup> |          |

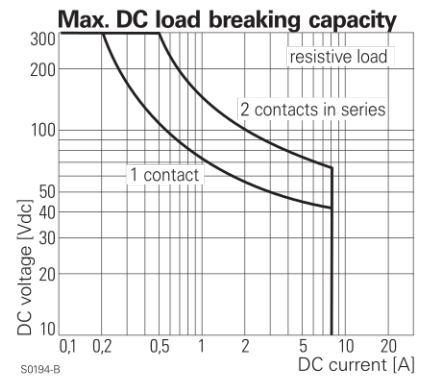
**Coil data**

|                    |             |
|--------------------|-------------|
| Nominal voltage    | 5...110 Vdc |
| Nominal coil power | 500 mW      |
| Operate category   | 2 / b       |

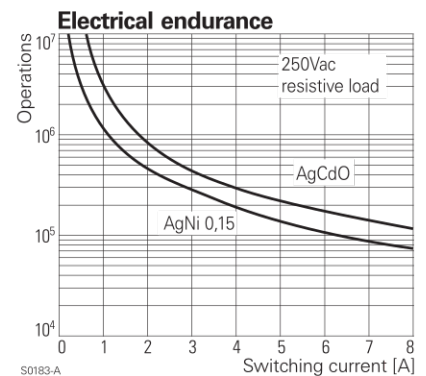
**Coil versions, DC-coil**

| Coil code | Nominal voltage Vdc | Pull-in voltage Vdc | Release voltage Vdc | Maximum voltage Vdc | Coil resistance Ω | Coil current mA |
|-----------|---------------------|---------------------|---------------------|---------------------|-------------------|-----------------|
| 005       | 5                   | 3.5                 | 0.5                 | 9.0                 | 54±10%            | 92.6            |
| 006       | 6                   | 4.2                 | 0.6                 | 10.8                | 68±10%            | 88.2            |
| 012       | 12                  | 8.4                 | 1.2                 | 21.6                | 270±10%           | 44.4            |
| 024       | 24                  | 16.8                | 2.4                 | 43.2                | 1100±15%          | 21.8            |
| 048       | 48                  | 33.6                | 4.8                 | 86.4                | 4400±15%          | 10.9            |
| 060       | 60                  | 42.0                | 6.0                 | 108.0               | 6540±15%          | 9.2             |
| 110       | 110                 | 77.0                | 11.0                | 198.0               | 23100±15%         | 4.8             |

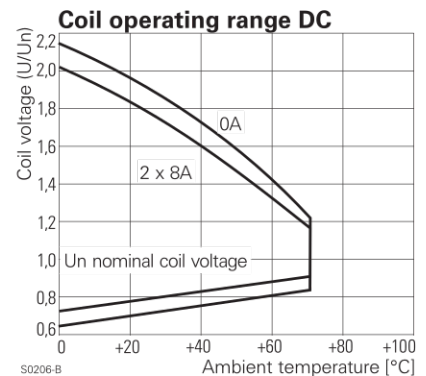
All figures are given for coil without preenergization, at ambient temperature +20°C  
Other coil voltages on request



S0194-B



S0183-A



S0206-B

**Power PCB Relay RP II/2 (Continued)**

**Insulation**

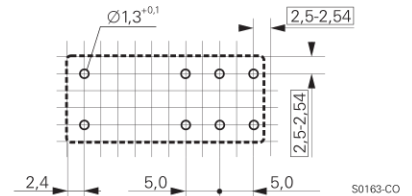
|   |         |
|---|---------|
| Insulation to IEC 60664                 |         |
| Voltage rating                          | 250 V   |
| Pollution degree                        | 3       |
| Overvoltage category                    | III     |
| Insulation to VDE 0110b (2/79)          |         |
| Insulation category / reference voltage | C / 250 |

**Other data**

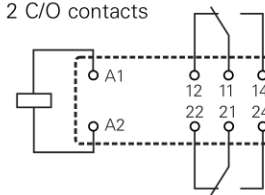
|  |   |
|--|---|
| RoHS - Directive 2002 / 95 / EC              | compliant as per product date code 0404       |
| Ambient temperature                          | -40...+70 °C                                  |
| Mechanical life                              | 20x10 <sup>6</sup> operations                 |
| Max. switching rate at rated- / minimum load | 10 min <sup>-1</sup> / 1200 min <sup>-1</sup> |
| Operate- / release time                      | typ. 9 / 3 ms                                 |
| Bounce time N/O contact/N/C contact          | typ. 2 / 3 ms                                 |
| Vibration resistance N/O / N/C contact       | 11 / 1.5 g, 30...150 Hz                       |
| Shock resistance (destruction)               | 100 g   |
| Category of protection (IEC 61810)           | RT II - flux proof, RT III - wash tight       |
| Relay weight                                 | 18 g  |
| Packaging unit                               | 20 / 500 pcs.                                 |
| Accessories                                  | see accessories RT and RP                     |

**PCB layout / terminal assignment**

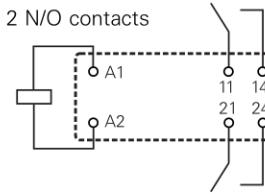
Bottom view on solder pins  
Dimensions in mm



2 C/O contacts

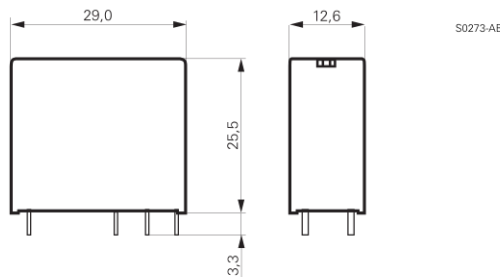


2 N/O contacts



**Dimensions**

Dimensions in mm



**Product key**

|                  |  |                        |          |                 |  |  |
|------------------|--|------------------------|----------|-----------------|--|--|
| Type             | <b>R</b>                                       | <b>P</b>               |          |                 |  |  |
| Version          | <b>4</b>                                       | <b>8 A, flux proof</b> | <b>8</b> | 8 A, wash tight |  |  |
| Contacts         | <b>2</b>                                       | <b>2 C/O contacts</b>  | <b>4</b> | 2 N/O contacts  |  |  |
| Contact material | <b>0</b>                                       | AgCdO                  | <b>1</b> | AgNi 0.15       |  |  |
| Coil             | Coil code: please refer to coil versions table |                        |          |                 |  |  |

Preferred types in bold print

**Power PCB Relay RP II/2 (Continued)**

| Product key | Version    | Contacts       | Contact material | Coil    | Part number |
|-------------|------------|----------------|------------------|---------|-------------|
| RP420005    | flux proof | 2 C/O contacts | AgCdO            | 5 Vdc   | 4-1393234-7 |
| RP420006    | 8 A        |                |                  | 6 Vdc   | 4-1393234-8 |
| RP420012    |            |                |                  | 12 Vdc  | 5-1393234-0 |
| RP420024    |            |                |                  | 24 Vdc  | 5-1393234-1 |
| RP420048    |            |                |                  | 48 Vdc  | 5-1393234-2 |
| RP420110    |            |                |                  | 110 Vdc | 5-1393234-4 |
| RP421012    |            |                | AgNi 0.15        | 12 Vdc  | 6-1393234-7 |
| RP421024    |            |                |                  | 24 Vdc  | 6-1393234-8 |
| RP421048    |            |                |                  | 48 Vdc  | 6-1393234-9 |
| RP421060    |            |                |                  | 60 Vdc  | 7-1393234-0 |
| RP421110    |            |                |                  | 110 Vdc | 7-1393234-1 |
| RP440012    |            | 2 N/O contacts | AgCdO            | 12 Vdc  | 7-1393234-8 |
| RP440024    |            |                |                  | 24 Vdc  | 7-1393234-9 |
| RP820006    | wash tight | 2 C/O contacts |                  | 6 Vdc   | 8-1393234-8 |
| RP820012    | 8 A        |                |                  | 12 Vdc  | 9-1393234-0 |
| RP820024    |            |                |                  | 24 Vdc  | 9-1393234-2 |
| RP820048    |            |                |                  | 48 Vdc  | 9-1393234-3 |
| RP821012    |            |                | AgNi 0.15        | 12 Vdc  | 0-1393845-4 |
| RP821024    |            |                |                  | 24 Vdc  | 0-1393845-5 |
| RP840024    |            | 2 N/O contacts | AgCdO            | 24 Vdc  | 1-1393845-8 |
| RP841024    |            |                | AgNi 0.15        | 24 Vdc  | 5-1393235-3 |