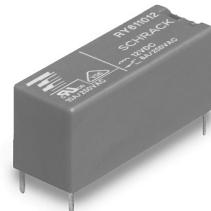


Miniature Power PCB RYII-AP

- 1 pole 8A, 1 form C (CO) or 1 form A (NO) or 1 form B (NC) contact
- Low component height 12.3mm
- 5kV/8mm coil-contact
- Reinforced insulation (protection class II)
- Pinnings: 3.2mm and 5mm
- Especially suitable for resistive and inductive loads on form A (NO) and form B (NC) contacts
- Plastic materials according to IEC 60335-1 (domestic appliances)

Typical applications

heating control, interface technology, domestic appliances, timers, temperature control



F0142-E


Approvals

VDE REG.-Nr. 5358, UL E214025

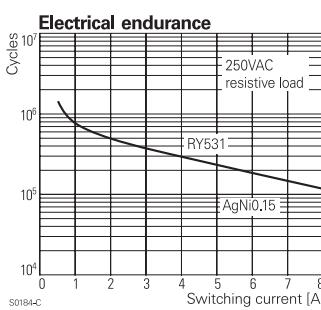
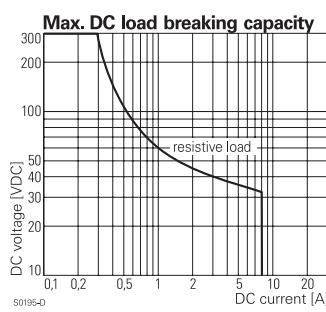
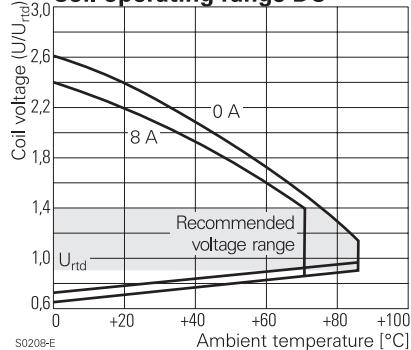
Technical data of approved types on request

Contact Data

| | |
|---|---|
| Contact arrangement | 1 form C (CO) or 1 form A (NO) or 1 form B (NC) |
| Rated voltage | 250VAC |
| Max. switching voltage | 400VAC |
| Rated current | 8A |
| Breaking capacity max. | 2000VA |
| Contact material | AgNi0.15, AgSnO ₂ |
| Frequency of operation, with/without load | 6/1200min ⁻¹ |
| Operate/release time max. | 9/5ms |
| Bounce time max., form A/form B | 6/10ms |

Contact ratings

| Type | Contact | Load | Cycles |
|-------------------------------|-------------|------------------------------------|---------------------|
| IEC61810 | | | |
| RY531 | A (NO) | 8A, 250VAC, 70°C | 100x10 ³ |
| RY211 | A (NO) | 8A, 250VAC, 70°C | 75x10 ³ |
| RY211 | A (NO) | 8A, 250VAC, 70°C | 50x10 ³ |
| UL508 | | | |
| RY211 | A/B (NO/NC) | 10A, 250VAC, general purpose, 70°C | 30x10 ³ |
| RY211 | A (NO) | 1/2hp, 240VAC, 85°C | 30x10 ³ |
| RY211 | A/B (NO/NC) | B300, 70°C | 6x10 ³ |
| EN60730-1 | | | |
| RY211 | A/B (NO/NC) | 6(4)A, 250VAC, 85°C | 100x10 ³ |
| RY211 | A (NO) | 8(4)A, 250VAC, 75°C | 100x10 ³ |
| Mechanical endurance, DC coil | | 30x10 ⁶ operations | |


Coil operating range DC

Insulation Data

| | |
|---|----------------------|
| Initial dielectric strength between open contacts | 1000V _{rms} |
| between contact and coil | 5000V _{rms} |
| Clearance/creepage between contact and coil | ≥8/8mm |
| Material group of insulation parts | IIIa |
| Tracking index of relay base reflow-solderable version | PTI250 PTI175 |

Miniature Power PCB RYII-AP (Continued)

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 | -40 to +70°C +85°C at 6A |
| Category of environmental protection IEC 61810 | RTII - flux proof RTIII - wash tight |
| Vibration resistance (functional), form A (NO)/form B (NC) | 20/5g |
| Shock resistance (functional) form A (NO)/form B (NC) | 20/5g |
| Shock resistance (destructive) | 100g |
| Terminal type | PCB-THT, PCB-THR |
| Weight | 8g |
| Resistance to soldering heat THT IEC 60068-2-20 | RTII : 270°C/10s RTIII : 260°C/5s |
| Packaging/unit standard version | tube/20 pcs., box/500 pcs. |

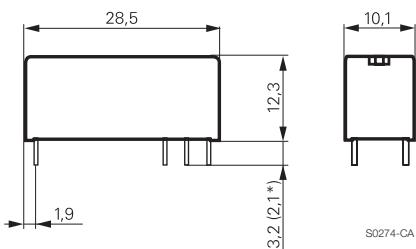
Accessories

For details see datasheet

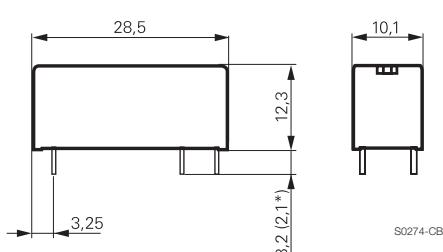
[Accessories Miniature PCB Relay RY](#)

Dimensions

Pinning 3.2mm

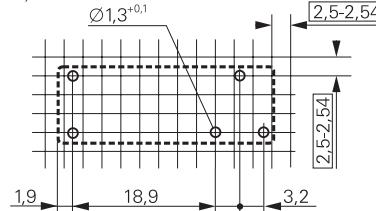


Pinning 5mm

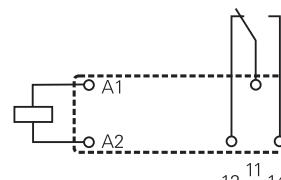

PCB layout / terminal assignment

Bottom view on solder pins

1 form C (CO) contact, 3.2mm

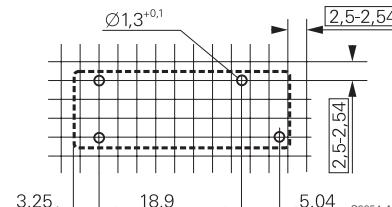


S0254-AA

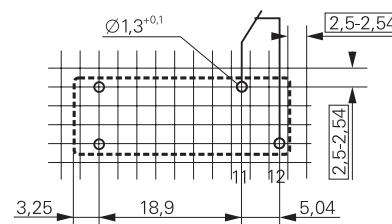


S0254-AB

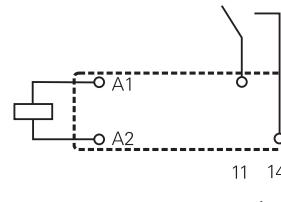
1 form A (NO), 1 form B (NC) contact 5mm



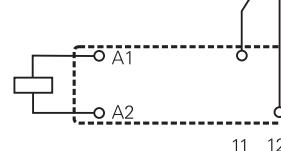
S0254-AC



S0254-AE



S0254-AD



S0254-AF

Miniature Power PCB RYII-AP (Continued)

Product code structure

 Typical product code **RY** **6** **1** **1** **012**

Type

RY Miniature Power PCB RYII & RYII reflow solderable

Version

2 pinning 3.2mm, flux proof **6** pinning 3.2mm, wash tight ²⁾
5 pinning 5mm, flux proof **A** pinning 5mm, wash tight ²⁾

Contact arrangement

1 1 form C (1 CO), pinning 3.2mm **3** 1 form A (1 NO), pinning 5mm
5 1 form B (1 NC), pinning 5mm

Contact material

1 AgNi 0.15 **2** AgNi 0.15 gold plated
3 AgSnO₂

Coil

Coil code: please refer to coil versions table

Version

 Blank Standard version
 R reflow-solderable

2) not available as reflow-solderable version

| Product code | Version | Contacts | Contact material | Coil | Part number |
|--------------|-----------------------------|---------------------------|------------------|-------|-------------|
| RY210005 | pinning 3.2mm flux proof | 1 form C, 1 CO contact | AgCdO | 5VDC | 1833007-3 |
| RY210012 | | | | 12VDC | 1833007-1 |
| RY210024 | | | | 24VDC | 1833007-2 |
| RY211005 | | | AgNi 0.15 | 5VDC | 2-1833007-5 |
| RY211012 | | | | 12VDC | 2-1833007-1 |
| RY211024 | | | | 24VDC | 2-1833007-2 |
| RY610005 | pinning 3.2mm wash tight | | AgCdO | 5VDC | 1833008-4 |
| RY610012 | | | | 12VDC | 1833008-1 |
| RY610024 | | | | 24VDC | 1833008-2 |
| RY611005 | | | AgNi 0.15 | 5VDC | 2-1833008-4 |
| RY611012 | | | | 12VDC | 2-1833008-1 |
| RY611024 | | | | 24VDC | 2-1833008-2 |
| RY531012 | pinning 5.0mm flux proof | 1 form A, 1 NO contact | | 12VDC | 2-1833009-2 |
| RY531024 | | | | 24VDC | 2-1833009-1 |