# Interface Power Relay RT

- **1 pole 12 / 16 A, 2 pole 8 A, 1 CO contact or 2 CO contacts**
- **DC- or AC coil**
- **Sensitive coil 400 mW**
- **Reinforced insulation, protection class II (VDE 0700)**
- **5 kV / 10 mm coil-contact**
- **1pole 12 A with 3.5 or 5 mm pinning**
- **Recycleable packaging**
- **RoHS compliant (Directive 2002/95/EC) as per product date code 0413**

F0269-A

**Applications**

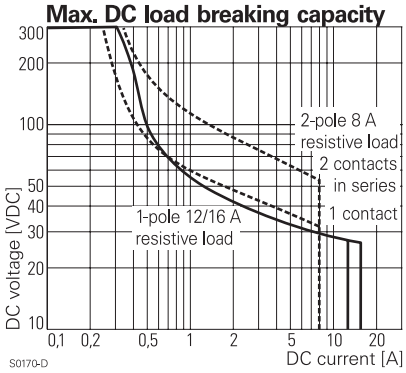
**Panel boards, mechanical engineering**

## Approvals

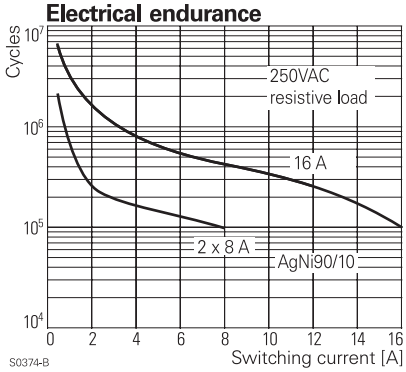
VDE REG.-Nr. 6106, c UL us E214025
Technical data of approved types on request

| Contact data | 1-pole | 2-pole |
|---|---|---|
| Contact configuration | 1 CO | 2 CO |
| Contact set | single contact | |
| Type of interruption | micro disconnection | |
| Rated current | 12 / 16 A | 8 A |
| Rated voltage / max.switching voltage AC | 240/400 VAC | |
| Maximum breaking capacity AC | 3000 / 4000 VA | 2000 VA |
| Limiting making capacity,max 4 s, df 10% | 25 / 30 A | 15 A |
| Contact material | AgNi 90/10 | |
| Mechanical endurance DC coil | > 30 x $10^6$ | >30 x $10^6$ |
| AC coil | > 10 x $10^6$ | >5 x $10^6$ |
| Rated frequency of operation with / without load | 6 / 1200 $min^{-1}$ | |

**Max. DC load breaking capacity**




**Electrical endurance**




**Contact ratings**

| Type | Load | Cycles |
|---|---|---|
| RT314 | 16 A, 250 VAC, NO contact, 85°C, DF 10%, UL508 | 50x$10^3$ |
| RT314 | 16 A, 250 VAC, NC contact, 70°C, 30$min^{-1}$ | 53x$10^3$ |
| RT314 | 16 A, 250 VAC, CO contact, VDE 0435 | 30 x $10^3$ |
| RT314 | 1000 W incandescent lamp, 250 VAC | 1.2x$10^3$ |
| RT314 | 10 A, 250 VAC, cosφ=0.6, CO contact, 70°C | 200x$10^3$ |
| RT314 | 5 A / 2 A, 250 VAC, cosφ=1, motor, NO contact, 10$min^{-1}$, 70°C | 1.1x$10^6$ |
| RT314 | Pilot duty A300 (NO contact), B300 (CO/NC contact), UL508 | |
| RT314 | 1hp @ 240 VAC, 1/2hp @ 120 VAC, NO contact, UL508 | |
| RT314 | AC15, 6 A, 250 VAC, NO and NC contact, 85°C, EN60947-5-1 | |
| RT314 | DC13, 2 A / 24 VDC, 0.2 A / 250 VDC, NO and NC contact, 85°C, EN60947-5-1 | |
| RT424 | 8 A, 250 VAC, NO contact, 70°C, EN61810-1 | 100x$10^3$ |
| RT424 | 6(2) A, 250 VAC, NO/NC contact, 85°C; EN60730-1 | 100x$10^3$ |
| RT424 | 1/2hp @ 240 VAC, 1/4hp @ 120 VAC, UL508 | |
| RT424 | Pilot duty B300, UL508 | |
| RT424 | 8 A, 30 VDC, General Purpose, UL508 | |

## Coil data

| | |
|---|---|
| Rated coil voltage range DC coil | 5...110 VDC |
| AC coil | 24...230 VAC |
| Coil power DC coil | typ 400 mW |
| AC coil | typ 0.75 VA |
| Operative range | 2 |
| Coil insulation system according UL1446 | class F |



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Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.

## Interface Power Relay RT (Continued)

**Coil versions, DC-coil**

| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ohm | Rated coil power mW |
|---|---|---|---|---|---|
| 006 | 6 | 4.2 | 0.6 | 90±10% | 400 |
| 012 | 12 | 8.4 | 1.2 | 360±10% | 400 |
| **024** | **24** | **16.8** | **2.4** | **1440±10%** | **400** |
| 048 | 48 | 33.6 | 4.8 | 5520±10% | 417 |
| 060 | 60 | 42.0 | 6.0 | 8570±12% | 420 |
| 110 | 110 | 77.0 | 11.0 | 28800±12% | 420 |

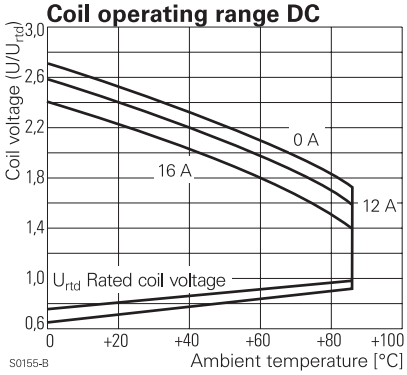
All figures are given for coil without preenergization, at ambient temperature +23°C
Other coil voltages on request

**Coil versions, AC-coil 50Hz**

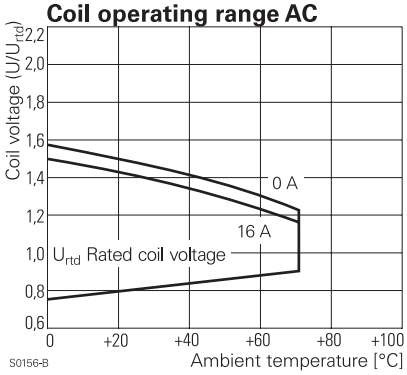
| Coil code | Rated voltage VAC | Operate voltage 50 Hz VAC | Release voltage 50 Hz VAC | Coil resistance Ohm | Rated coil power 50 Hz VA |
|---|---|---|---|---|---|
| **524** | **24** | **18.0** | **3.6** | **350±10%** | **0.76** |
| 615 | 115 | 86.3 | 17.3 | 8100±15% | 0.76 |
| **730** | **230** | **172.5** | **34.5** | **32500±15%** | **0.74** |

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

**Coil operating range DC**




**Coil operating range AC**




| Insulation | | |
|---|---|---|
| Dielectric strength coil-contact circuit | | 5000 $V_{rms}$ |
| | open contact circuit | 1000 $V_{rms}$ |
| | adjacent contact circuits | 2500 $V_{rms}$ |
| Clearance / creepage coil-contact circuit | | ≥ 10 / 10 mm |
| Material group of insulation parts | | ≥ IIIa |
| Tracking index of relay base | | PTI 250 V |
| Insulation to IEC 60664-1 | | |
| Type of insulation coil-contact circuit | | reinforced |
| | open contact circuit | functional |
| | adjacent contact circuits | basic |
| Rated insulation voltage | | 250 V |
| Pollution degree | | 3 |
| Rated voltage system | | 240/400 V |
| Overvoltage category | | III |

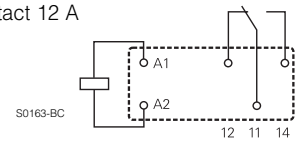
| Other data | 1-pole | 2-pole |
|---|---|---|
| RoHS - Directive 2002/95/EC | compliant as per product date code 0413 | |
| Flammability class according to UL94 | V-0 | |
| Ambient temperature range DC coil | -40...+85°C | |
| AC coil | -40...+70°C | |
| Operate- / release time DC coil | typ 7 / 3 ms | typ 7 / 2 ms |
| Bounce time DC coil, NO / NC contact | typ 1 / 3 ms | typ 1 / 3 ms |
| Vibration resistance (function), NO / NC contact | 20 / 5 g, 30 ... 500 Hz | |
| Shock resistance (destruction) | 100 g | |
| Category of protection | RTII | |
| Mounting distance | 0 mm, dense packing | |
| Relay weight | 14 g | |
| Packaging unit | 20 / 500 pcs | |

| Accessories | |
|---|---|
| For Details see datasheet | Accessories Interface Power Relay RT |

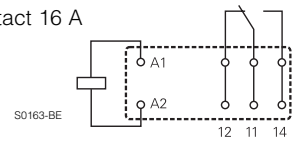
| Relay Packages |
|---|
| Complete packages consisting of a relay mounted on a socket see Package RT |

**Terminal assignment**
Bottom view on pins

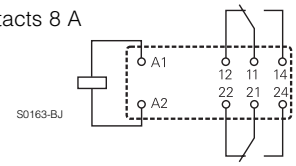
1 CO contact 12 A



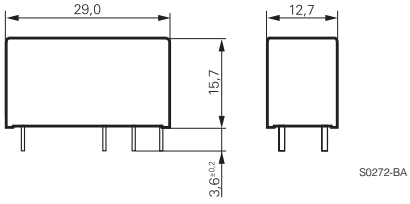

1 CO contact 16 A




2 CO contacts 8 A




**Dimensions**



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## Interface Power Relay RT (Continued)

**Product key**

| R | T | | | 4 | | | |
|---|---|---|---|---|---|---|---|

Type

Version
- **1** 1-pole, 12 A, pinning 3.5 mm
- **2** 1-pole, 12 A, pinning 5 mm
- **3** 1-pole, 16 A, pinning 5 mm
- **4** 2-pole, 8 A, pinning 5 mm

Contact configuration
- **1** 1 CO contact
- **2** 2 CO contacts

Contact material
- **4** AgNi 90/10

Coil
Coil code: please refer to coil versions table, preferred types in bold print

Wash tight version on request

| Product key | Version | Contacts | Cont. material | Coil | Coil | Part number |
|---|---|---|---|---|---|---|
| RT114024 | 1-pole, 12 A pinning 3.5 mm | 1 CO contact | AgNi 90/10 | DC-coil | 24 VDC | 1-1393239-3 |
| RT114524 | | | | AC-coil | 24 VAC | 1-1393239-7 |
| RT114615 | | | | | 115 VAC | 1-1393239-8 |
| RT114730 | | | | | 230 VAC | 1-1393239-9 |
| RT214024 | 1-pole, 12 A pinning 5 mm | | | DC-coil | 24 VDC | 5-1393239-5 |
| RT214524 | | | | AC-coil | 24 VAC | 5-1393239-9 |
| RT214615 | | | | | 115 VAC | 6-1393239-0 |
| RT214730 | | | | | 230 VAC | 0-1419108-6 |
| RT314024 | 1-pole, 16 A pinning 5 mm | | | DC-coil | 24 VDC | 9-1393239-8 |
| RT314524 | | | | AC-coil | 24 VAC | 0-1393240-4 |
| RT314615 | | | | | 115 VAC | 0-1393240-6 |
| RT314730 | | | | | 230 VAC | 0-1393240-7 |
| RT424024 | 2-pole, 8 A pinning 5 mm | 2 CO contacts | | DC-coil | 24 VDC | 6-1393243-8 |
| RT424524 | | | | AC-coil | 24 VAC | 7-1393243-6 |
| RT424615 | | | | | 115 VAC | 7-1393243-8 |
| RT424730 | | | | | 230 VAC | 7-1393243-9 |



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