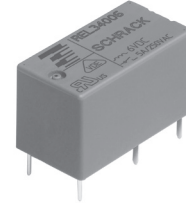


## Miniature PCB Relay REL

- 1 pole 5 A, 1 form A (NO) contact
- Low height 12.0mm
- Especially suited for applications white goods, consumer electronics, etc.
- Plastic materials according to IEC 60335-1 (domestic appliances)



Typical applications  
PLC's, timers, temperature control, I/O cards, white goods.



### Approvals

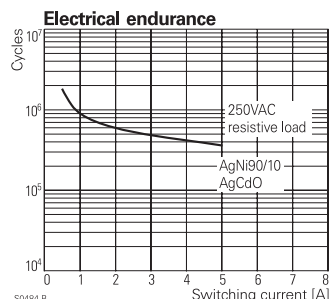
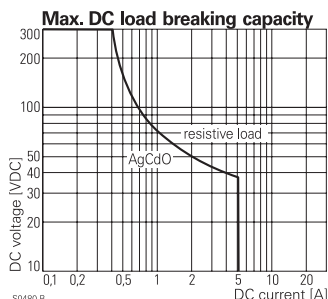
VDE Cert. No. 40010579, UL E214025  
Technical data of approved types on request.

### Contact Data

|                                                  |                   |
|--------------------------------------------------|-------------------|
| Contact arrangement                              | 1 form A (NO)     |
| Rated voltage                                    | 250VAC            |
| Max. switching voltage                           | 400VAC            |
| Rated current                                    | 5A                |
| Limiting making current, max 4s, duty factor 10% | 15A               |
| Contact material                                 | AgNi 90/10, AgCdO |
| Frequency of operation<br>with/without load      | 360/72000 ops./h  |
| Operate/release time max.                        | 10/5ms            |
| Bounce time max.                                 | 4ms               |

### Contact ratings

| Type                 | Contact | Load                              | Cycles                         |
|----------------------|---------|-----------------------------------|--------------------------------|
| <b>IEC 61810</b>     |         |                                   |                                |
| REL30                | A (NO)  | 5A, 250VAC, $\cos\phi=1$ , 85°C   | 100x10 <sup>3</sup>            |
| REL30                | A (NO)  | 3A, 400VAC, $\cos\phi=1$ , 85°C   | 400x10 <sup>3</sup>            |
| REL34                | A (NO)  | 5A, 250VAC, $\cos\phi=1$ , 85°C   | 100x10 <sup>3</sup>            |
| REL34                | A (NO)  | 3A, 400VAC, $\cos\phi=1$ , 85°C   | 400x10 <sup>3</sup>            |
| <b>UL 508</b>        |         |                                   |                                |
| REL30                | A (NO)  | 5A, 250VAC, general purpose, 85°C | 100x10 <sup>3</sup>            |
| REL30                | A (NO)  | 1/4 hp, 240VAC, Motor 85°C        | 30x10 <sup>3</sup>             |
| REL30                | A (NO)  | B300 pilot duty 40°C              | 6x10 <sup>3</sup>              |
| REL34                | A (NO)  | 5A, 250VAC, resistive, 85°C       | 100x10 <sup>3</sup>            |
| Mechanical endurance |         |                                   | >10x10 <sup>6</sup> operations |



### Coil Data

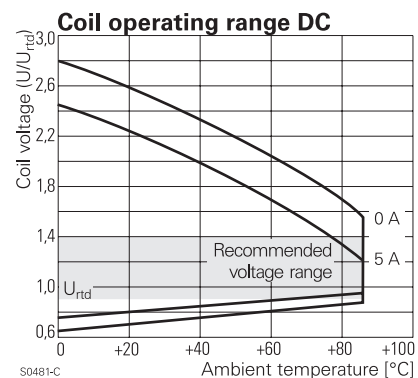
|                                         |            |
|-----------------------------------------|------------|
| Coil voltage range                      | 5 to 48VDC |
| Operative range, IEC 61810              | 2          |
| Coil insulation system according UL1446 | F          |

### Coil versions, DC coil

| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance $\Omega \pm 10\%^{(1)}$ | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|-----------------------------------------|---------------------|
| 5         | 5                 | 3.75                | 0.5                 | 70                                      | 357                 |
| 6         | 6                 | 4.5                 | 0.6                 | 100                                     | 360                 |
| 12        | 12                | 9.0                 | 1.2                 | 400                                     | 360                 |
| 24        | 24                | 18.0                | 2.4                 | 1600                                    | 360                 |
| 36        | 36                | 27.0                | 3.6                 | 3600 <sup>(1)</sup>                     | 360                 |
| 48        | 48                | 36.0                | 4.8                 | 6400 <sup>(1)</sup>                     | 360                 |

<sup>(1)</sup> Coil resistance  $\pm 15\%$ .

All figures are given for coil without pre-energization, at ambient temperature +23°C.  
Other coil voltages on request.



### Insulation Data

|                                    |                       |
|------------------------------------|-----------------------|
| Initial dielectric strength        |                       |
| between open contacts              | 1000V <sub>ms</sub>   |
| between contact and coil           | 3000V <sub>ms</sub>   |
| Initial insulation resistance      |                       |
| open contact circuit               | >10x10 <sup>9</sup> Ω |
| coil-contact circuit               | >10x10 <sup>9</sup> Ω |
| Clearance/creepage                 |                       |
| between contact and coil           | ≥4/4mm                |
| Material group of insulation parts | IIIa                  |

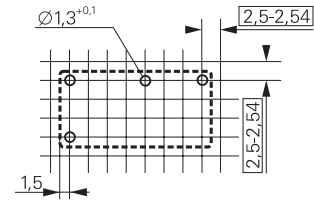
## Miniature PCB Relay REL (Continued)

### Other Data

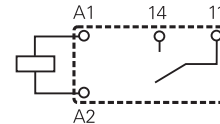
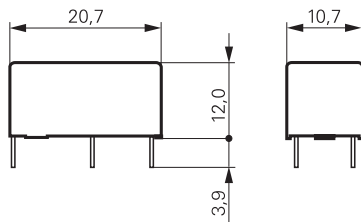
|                                                                                                                                                                                                                                       |                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at <a href="http://www.te.com/customersupport/rohssupportcenter">www.te.com/customersupport/rohssupportcenter</a> |                           |
| Resistance to heat and fire                                                                                                                                                                                                           | according EN60335, par.30 |
| Ambient temperature                                                                                                                                                                                                                   | -40 to +85°C              |
| Category of environmental protection                                                                                                                                                                                                  |                           |
| IEC 61810                                                                                                                                                                                                                             | RTII - flux proof         |
| Shock resistance (destructive)                                                                                                                                                                                                        | 100 g                     |
| Terminal type                                                                                                                                                                                                                         | PCB-THT                   |
| Weight                                                                                                                                                                                                                                | 5g                        |
| Resistance to soldering heat THT                                                                                                                                                                                                      |                           |
| IEC 60068-2-20                                                                                                                                                                                                                        | 270°C/10s                 |
| Packaging/unit                                                                                                                                                                                                                        | tube/25                   |

### PCB layout / terminal assignment

Bottom view on solder pins



### Dimensions



### Product code structure

Typical product code **REL 3 4 024**

#### Type

**REL** Miniature PCB Relay REL

#### Contact arrangement

**3** 1 form A (NO) contact

#### Contact material

**4** AgNi 90/10 **0** AgCdO

#### Coil

Coil code: please refer to coil versions table

| Product code | Version    | Contacts     | Contact material | Coil  | Part number |
|--------------|------------|--------------|------------------|-------|-------------|
| REL34006     | flux proof | 1 form A     | AgNi90/10        | 6VDC  | 3-1415535-5 |
| REL34012     |            | 1 NO contact |                  | 12VDC | 3-1415535-6 |
| REL34024     |            |              |                  | 24VDC | 3-1415535-7 |
| REL34048     |            |              |                  | 48VDC | 3-1415535-8 |
| REL30006     |            |              | AgCdO            | 6VDC  | 1393218-2   |
| REL30012     |            |              |                  | 12VDC | 4-1393217-6 |
| REL30024     |            |              |                  | 24VDC | 4-1393217-7 |
| REL30048     |            |              |                  | 48VDC | 1393218-3   |

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9