

## Minature PCB Relay REL

- 1 pole 5 A, 1 NO contact
- Low height 12.0 mm
- Especially suited for applications white goods, consumer electronics, etc.
- Plastic materials according to IEC60335-1 (domestic appliances)

### Applications

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



F0275-B

### Approvals

VDE REG.-Nr. 6127, c  us E214025  
Technical data of approved types on request

### Contact data

Contact configuration	1 NO
Contact set	single contact
Type of interruption	micro disconnection
Rated voltage / max. switching voltage AC	250 / 400 VAC
Rated current	5 A
Limiting making capacity, max 4 s, duty factor 10%	15 A
Contact material	AgNi90/10, AgCdO
Rated frequency of operation with / without load	6/1200 min <sup>-1</sup>
Operate- / release time	max. 10/5 ms
Bounce time NO / NC contact	max. 4 ms

### Contact ratings

Type	Contact	Load	Ambient temp. [°C]	Cycles
<b>IEC 61810</b>				
REL30	NO	5 A, 250 VAC, cosφ=1,	85°C	100x10 <sup>3</sup>
REL30	NO	3 A, 400 VAC, cosφ=1,	85°C	400x10 <sup>3</sup>
REL34	NO	5 A, 250 VAC, cosφ=1,	85°C	100x10 <sup>3</sup>
REL34	NO	3 A, 400 VAC, cosφ=1,	85°C	400x10 <sup>3</sup>
<b>UL 508</b>				
REL30	NO	5 A, 250 VAC, general purpose,	85°C	100x10 <sup>3</sup>
REL30	NO	1/4 hp, 240 VAC, Motor	85°C	30x10 <sup>3</sup>
REL30	NO	B300 pilot duty	40°C	6x10 <sup>3</sup>
REL34	NO	5 A, 250 VAC, resistive,	85°C	100x10 <sup>3</sup>

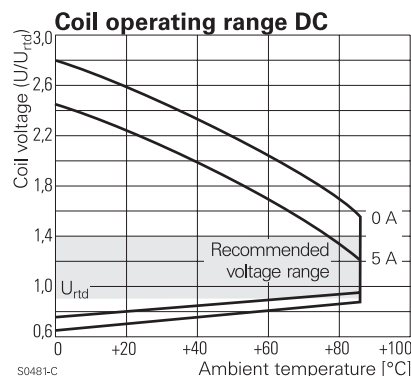
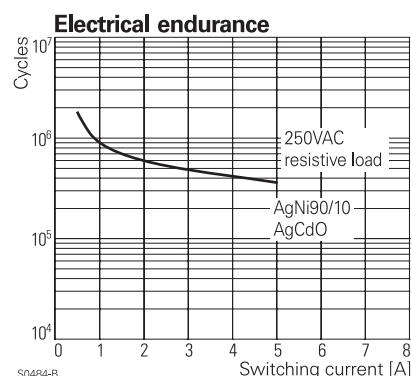
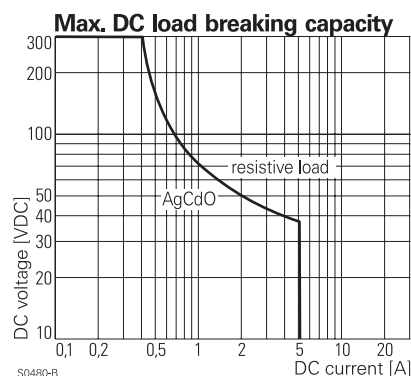
### Coil data

Rated coil voltage range DC coil	5 ... 48 VDC
Operative range to 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 Ohm	Rated coil power mW
005	5	3.75	0.5	70±10%	357
006	6	4.5	0.6	100±10%	360
012	12	9	1.2	400±10%	360
024	24	18	2.4	1600±10%	360
036	36	27	3.6	3600±15%	360
048	48	36	4.8	6400±15%	360

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



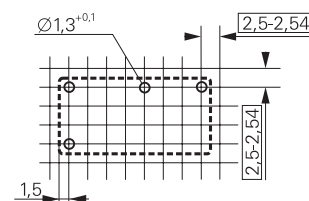
## Minature PCB Relay REL (Continued)

### Insulation

Insulation resistance coil-contact circuit	> 10 <sup>4</sup> MOhms
open contact circuit	> 10 <sup>4</sup> MOhms
Dielectric strength coil-contact circuit	3000 V <sub>rms</sub>
open contact circuit	1000 V <sub>rms</sub>
Clearance / creepage coil-contact circuit	≥ 4 / 4 mm
Material group of insulation parts	IIIa
Insulation to IEC 61810-1	
Type of insulation coil-contact circuit	basic
open contact circuit	micro disconnection
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	230 / 400 V
Overvoltage category	III

### PCB layout / terminal assignment

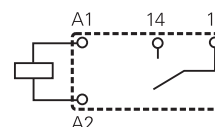
Bottom view on solder pins



S0176-BL

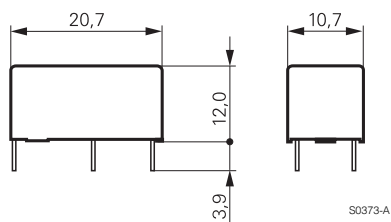
### Other data

Mechanical endurance	> 10x10 <sup>6</sup> cycles
Material	
RoHS - Directive 2002/95/EC	compliant as per product date code 0352
Resistance to heat and fire	according EN60335, par.30
Environment	
Ambient temperature range	-40...+85°C
Shock resistance (destruction)	100 g
Category of protection	RT II - flux proof
Processing	
Resistance to soldering heat flux-proof version	270°C / 10 s
Relay weight	5 g
Packaging unit	25 pcs



S0176-BJ

### Dimensions



S0373-A

### Product key

Typical product key

**REL 3 4 024**

#### Type

**REL** Miniature PCB Relay REL

#### Contact configuration

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

#### Contact material

**4** AgNi90/10

**0** AgCdO

#### Coil

Coil code: please refer to coil versions table

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