

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)
- RoHS compliant (Directive 2002/95/EC) as per product date code 0352

Applications

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



F0275-A

Approvals

VDE REG.-Nr. 6127, **CE** 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 current	5 A
Rated voltage / max.switching voltage AC	240/400 VAC
Limiting making capacity, max 4 s, duty factor 10%	15 A
Contact material	AgNi90/10, AgCdO
Mechanical endurance	>10x10 ⁶ cycles
Rated frequency of operation with / without load	6/1200 min ⁻¹

Contact ratings

Type	Load	Cycles
REL3.	5 A, 250 VAC, resistive, 85°C, 50% df, 6 min ⁻¹ , VDE EN61810-1	1x10 ⁵
REL3.	3 A, 400 VAC, resistive, 85°C, 50% df, 20 min ⁻¹ , VDE EN61810-1	4x10 ⁵
REL34	5 A, 250 VAC, general purpose, 85°C, UL508	1x10 ⁵
REL30	1/4 hp, 240 VAC, general purpose, UL508	3x10 ⁴
REL30	B300, UL508	

Coil data

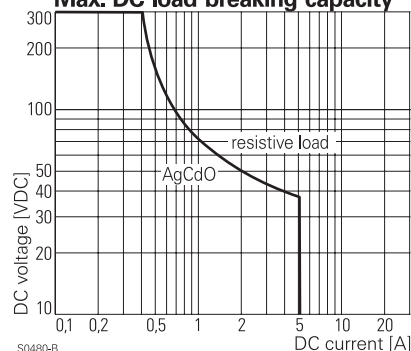
Rated coil voltage range DC coil	5 ... 48 VDC
Coil power DC coil	360 mW
Operative range	2
Coil insulation system according UL1446	F

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

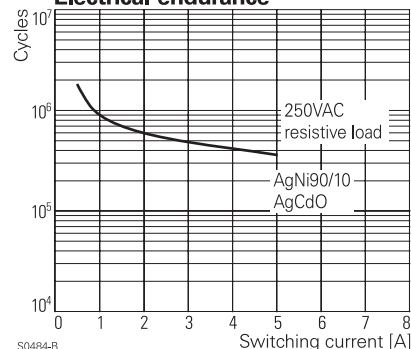
All figures are given for coil without preenergization, at ambient temperature +23°C
Other coil voltages on request

Max. DC load breaking capacity



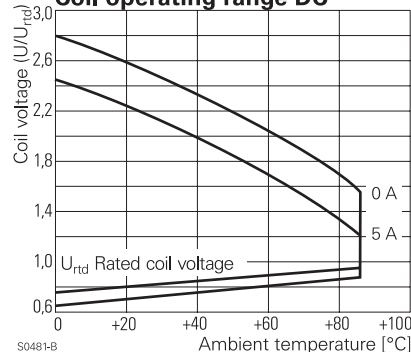
S0480-B

Electrical endurance



S0484-B

Coil operating range DC



S0481-B

Minature PCB Relay REL (Continued)

Insulation

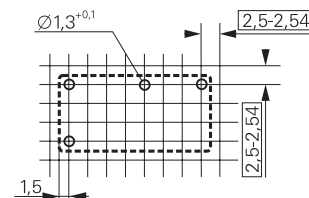
Dielectric strength coil-contact circuit	3000 V _{rms}
open contact circuit	1000 V _{rms}
Clearance / creepage coil-contact circuit	≥ 4 / 4 mm
Material group of insulation parts	IIIa
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	basic
open contact circuit	functional
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	230/400 V
Overvoltage category	III

Other data

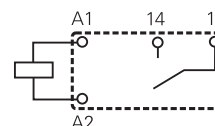
RoHS - Directive 2002/95/EC	compliant as per product date code 0352
Flammability class according to UL94	V-0
Ambient temperature range	-40...+85°C
Operate- / release time	5/1 ms
Bounce time NO / NC contact	1 ms
Shock resistance (destruction)	100 g
Category of protection	RT II - flux proof
Resistance to soldering heat flux-proof version	270°C / 10 s
Relay weight	5 g
Packaging unit	25 pcs

PCB layout / terminal assignment

Bottom view on solder pins

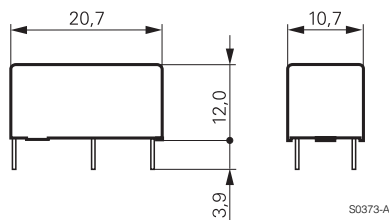


S0176-BL



S0176-BJ

Dimensions



S0373-A

Product key

Type

Contact configuration
3 1 NO contact

Contact material
4 AgNi90/10 **0** AgCdO

Coil

Coil code: please refer to coil versions table

REL 3

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	0-1393218-2
REL30012				12 VDC	4-1393217-6
REL30024				24 VDC	4-1393217-7
REL30048				48 VDC	0-1393218-3