

**Miniature PCB Relay RE**

- 1 pole 6 A, 1NO contact
- Sensitive coil 200 mW
- 4 kV coil-contact
- Optimized height 10,6 mm
- PCB area 200 mm<sup>2</sup>
- Wash tight
- Plastic materials according to IEC60335-1 (domestic appliances)
- Versions with AgNi 0.15 and AgNi90/10 contact material:  
RoHS compliant (Directive 2002/95/EC) as per product date code 0352

**Applications**

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



F0141-A

**Approvals**

REG.-Nr. 5063, 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	6 A
Rated voltage / max.switching voltage AC	240/400 VAC
Maximum breaking capacity AC	1500 VA
Limiting making capacity, max 4 s, duty factor 10%	15 A
Contact material	AgCdO
	AgNi0.15 and AgNi90/10 in preparation
Mechanical endurance	>30x10 <sup>6</sup> cycles
Rated frequency of operation with / without load	6/1200 min <sup>-1</sup>

**Contact ratings**

Type	Load	Cycles
RE030	6 A, 250 VAC, resistive, 70°C, 50% df, 6 min <sup>-1</sup> , EN61810-1	1x10 <sup>5</sup>
RE030	1/4 hp, 240 VAC, UL508	3x10 <sup>4</sup>
RE030	B 300, UL508	

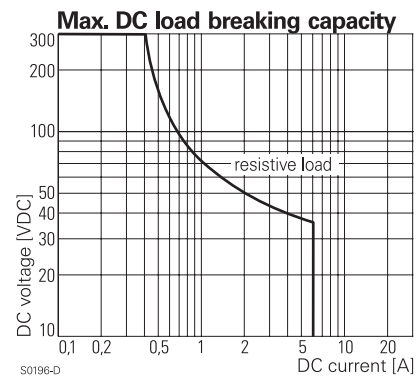
**Coil data**

Rated coil voltage range DC coil	5 ... 48 VDC
Coil power DC coil	typ. 200 mW
Operative range	2
Coil insulation system according UL1446	F

**Coil versions, DC-coil**

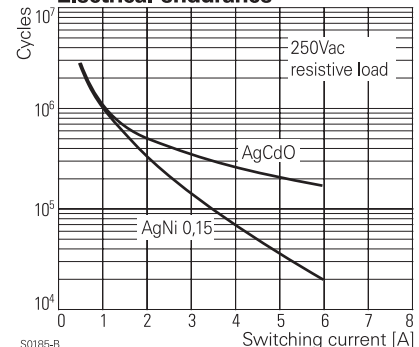
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
005	5	3.5	0.5	125±10%	200
006	6	4.2	0.6	180±10%	200
012	12	8.4	1.2	720±10%	200
024	24	16.8	2.4	2880±15%	200
048	48	33.6	4.8	11520±15%	200

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



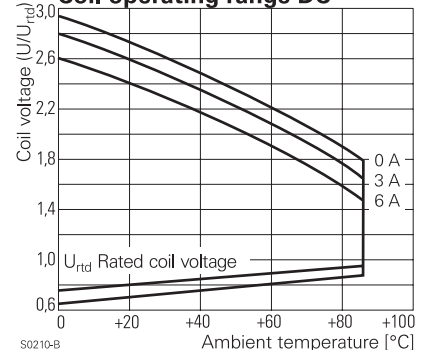
S0196-D

**Electrical endurance**



S0185-B

**Coil operating range DC**



S0210-B

**Insulation**

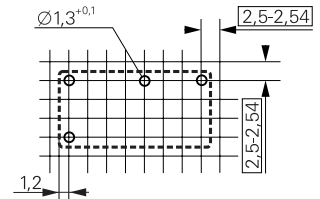
Dielectric strength coil-contact circuit	4000 V <sub>rms</sub>
open contact circuit	1000 V <sub>rms</sub>
Clearance / creepage coil-contact circuit	≥ 4/4 mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI 250
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	basic
open contact circuit	functional
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	230/400 V
Overvoltage category	III

**Other data**

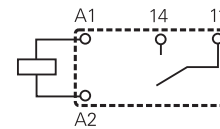
RoHS - Directive 2002/95/EC	
Versions with AgNi0.15 and AgNi90/10 contacts: compliant as per product date code 0352	
Flammability class according to UL94	V-0
Ambient temperature range	-40 ... +70°C -40 ... +85°C at 4 A
Operate- / release time	5/1 ms
Bounce time NO / NC contact	1 ms
Category of protection	RTIII - wash-tight
Resistance to soldering heat wash-tight version	260°C / 5 s
Relay weight	5 g
Packaging unit	25 pcs

**PCB layout / terminal assignment**

Bottom view on solder pins

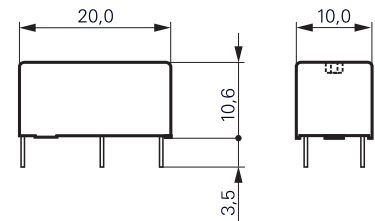


S0176-BH



S0176-BJ

**Dimensions**



S0271-AH

**Product key**

Type

Version

**0** wash-tight

Contact configuration

**3** 1 NO contact

Contact material

**1** AgNi 0.15

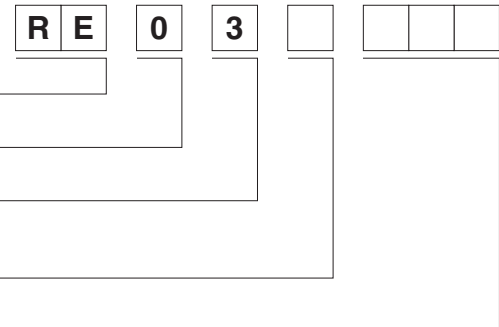
**2** AgNi 0.15 gold plated

**4** AgNi 90/10

**0** AgCdO

Coil

Coil code: please refer to coil versions table



Product key	Version	Contacts	Contact material	Coil	Part number
RE030005	wash tight	1 NO contact	AgCdO	5 VDC	0-1393217-1
RE030006				6 VDC	0-1393217-2
RE030012				12 VDC	0-1393217-4
RE030024				24 VDC	0-1393217-8
RE030048				48 VDC	1-1393217-1
RE032005			AgNi 0,15	5 VDC	1-1393217-9
RE032006			gold plated	6 VDC	2-1393217-0
RE032012				12 VDC	2-1393217-2
RE032024				24 VDC	2-1393217-4
RE032048				48 VDC	2-1393217-5
RE034005			AgNi 90/10	5 VDC	
RE034006				6 VDC	
RE034012				12 VDC	
RE034024				24 VDC	
RE034048				48 VDC	