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 mm2**
- **Wash tight**

F0141-B

Applications

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

Approvals

VDE REG.-Nr. 5063, cULus 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	6 A
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
Rated frequency of operation with / without load	6/1200 min^{-1}
Operate- / release time	max. 10 / 5 ms
Bounce time NO / NC contact	max. 4 ms

Contact ratings

Type	Contact	Load	Ambient temp. [°C]	Cycles
IEC 61810				
RE030	NO	6 A, 250 VAC, cosφ=1,	70°C	100x10^3
RE034	NO	6 A, 250 VAC, cosφ=1,	70°C	100x10^3
UL 508				
RE030	NO	1/4 hp, 240 VAC, motor	40°C	30x10^3
RE030	NO	B300 pilot duty	40°C	6x10^3
RE034	NO	6 A, 250 VAC,general purpose,	70°C	100x10^3
RE034	NO	B300 pilot duty	40°C	6x10^3

Coil data

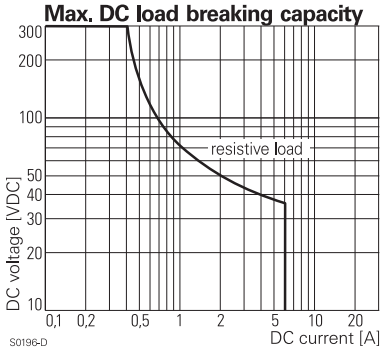
Rated coil voltage range DC coil	5 ... 48 VDC
Operative range to IEC 61810	2
Coil insulation system according UL1446	F

Coil versions, DC-coil

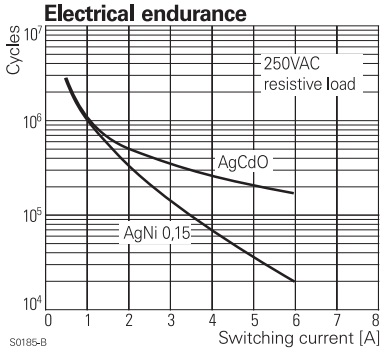
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
005	5	3.5	0.5	125±10%	200
006	6	4.2	0.6	180±10%	200
012	12	8.4	1.2	720±10%	200
018	18	12.6	1.8	1620±10%	200
024	24	16.8	2.4	2880±15%	200
048	48	33.6	4.8	11520±15%	200

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

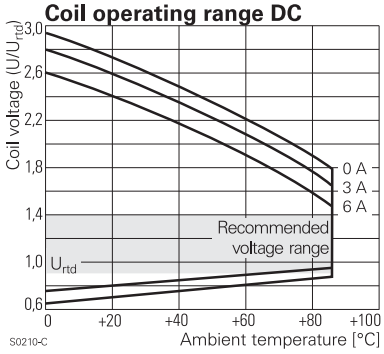
Max. DC load breaking capacity



Electrical endurance



Coil operating range DC



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Dimensions are in mm unless otherwise specified and are shown for reference purposes only.

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

Specifications subject to change.

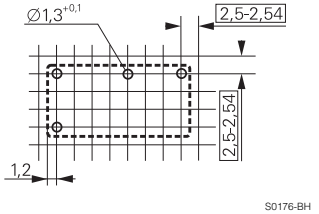
Miniature PCB Relay RE (Continued)

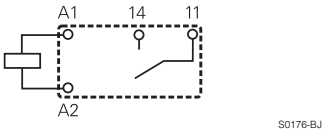
Insulation	
Insulation resistance coil-contact circuit	> 10^4 MOhms
open contact circuit	> 10^4 MOhms
Dielectric strength coil-contact circuit	4000 V_{rms}
open contact circuit	1000 V_{rms}
Clearance / creepage coil-contact circuit	≥ 4/4 mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI 250
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

Other data	
Mechanical endurance	>30x10^6 cycles
Material	
RoHS - Directive 2002/95/EC	compliant as per product date code 0352
Environment	
Ambient temperature range	-40 ... +70°C
	-40 ... +85°C at 4 A
Category of protection	RTIII - wash-tight
Processing	
Resistance to soldering heat wash-tight version	260°C / 5 s
Relay weight	5 g
Packaging unit	25 pcs

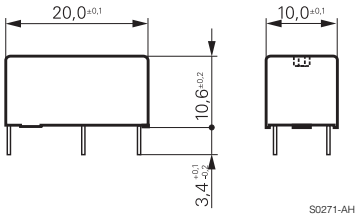
PCB layout / terminal assignment

Bottom view on solder pins





Dimensions



Product key — Typical product key: **RE 0 3 2 012**

Type
RE Miniature PCB Relay RE

Version
0 wash tight

Contact configuration
3 1 NO contact (1 form A)

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	1393217-1
RE030006				6 VDC	1393217-2
RE030012				12 VDC	1393217-4
RE030024				24 VDC	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	2-1416010-3
RE034006				6 VDC	2-1416010-4
RE034012				12 VDC	2-1416010-6
RE034024				24 VDC	2-1416010-7
RE034048				48 VDC	2-1416010-8

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