

Miniature PCB Relay PE

- 1 pole 5 A, 1 CO contact
- Cadmium-free contacts
- Sensitive coil 200 mW
- 4 kV coil-contact
- Ambient temperature 85°C
- Low height 10.0 mm
- Plastic materials according to IEC60335-1 (domestic appliances)
- RoHS compliant (Directive 2002/95/EC) as per product date code 0352

Applications

Industrial electronics, white goods, measurement and control



F0169-B

Approvals

VDE REG.-Nr. 6656, c **RU** us E214025
Technical data of approved types on request

Contact data

Contact configuration	1 CO
Contact set	single contact
Type of interruption	micro disconnection
Rated current	5 A
Rated voltage / max.switching voltage AC	240/400 VAC
Maximum breaking capacity AC	1250 VA
Contact material	AgNi90/10
Mechanical endurance	15x10 ⁶ cycles
Rated frequency of operation with / without load	6/1200 min ⁻¹

Contact ratings

Type	Load	Cycles
PE514	5A, 250 VAC, resistive, 85°C, 6cycles/min, 50% df, EN61810-1	1x10 ⁴
PE514	5A, 250 VAC, resistive on NO, 85°C, 6cycles/min, 50% df, EN61810-1	1.5x10 ⁴
PE514	5A, 240 VAC resistive load, on NO or NC contact, UL508	1x10E4

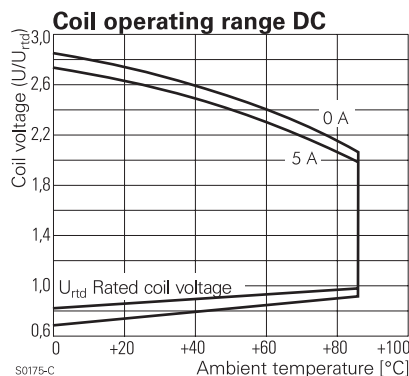
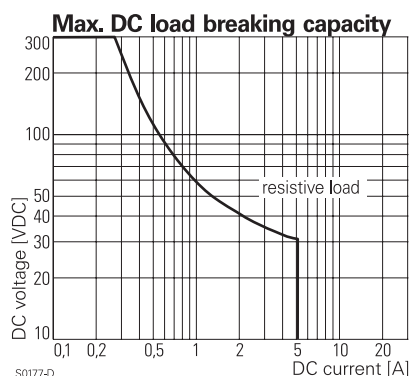
Coil data

Rated coil voltage range DC coil	5...48 VDC
Coil power DC coil	typ. 200 mW
Operative range	2

Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
005	5	3.8	0.5	125 ± 10%	200
006	6	4.5	0.6	172 ± 10%	209
012	12	9.0	1.2	685 ± 10%	210
024	24	18.0	2.4	2725 ± 10%	211
048	48	36.0	4.8	10970 ± 10%	210

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



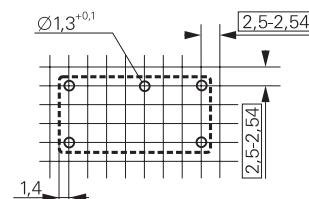
Product title (Continued)

Insulation

Dielectric strength coil-contact circuit	4000 V _{rms}
open contact circuit	1000 V _{rms}
Clearance / creepage coil-contact circuit	≥ 3,2 / 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 V
Overvoltage category	III

PCB layout / terminal assignment

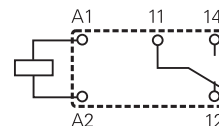
Bottom view on solder pins



S0176-BA

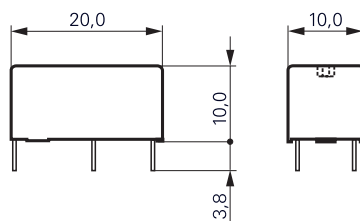
Other data

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	typ. 5/2 ms
Bounce time NO / NC contact	typ. 1/5 ms
Vibration resistance (function) NO / NC contact	> 15/5 g
Shock resistance (destruction)	> 100 g
Category of protection	RTIII - wash tight
Resistance to soldering heat flux-proof version	270°C / 10 s
Relay weight	5 g
Packaging unit	25/500 pcs



S0176-BB

Dimensions



S0271-AA

Product key

Type

Version

5 washtight

Contact configuration

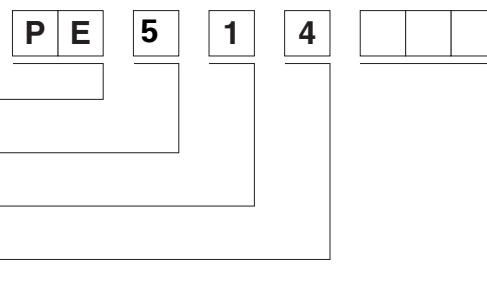
1 1 CO contact

Contact material

4 AgNi 90/10

Coil

Coil code: please refer to coil versions table



Product key	Version	Contacts	Cont. material	Coil	Part number
PE514005	wash tight	1 CO contact	AgNi 90/10	5 Vdc	1-1393219-7
PE514006				6 Vdc	1-1393219-8
PE514012				12 Vdc	2-1393219-0
PE514024				24 Vdc	2-1393219-2
PE514048				48 Vdc	0-1415350-1