Miniature PCB Relay PE

■ **1 pole 5 A, 1 form C (CO) or 6A, 1 form A (NO) contact**

■ **Cadmium-free contacts**

■ **Sensitive coil 200mW**

■ **Ambient temperature 85°C**

■ **Low height 10.0mm**

■ **Plastic materials according to IEC 60335-1 (domestic appliances)**

Typical applications
Industrial electronics, white goods, measurement and control

F0169-C

Approvals
VDE Cert. No. 40011901, UL E214025
Technical data of approved types on request

Contact Data
Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	5A (CO - types)
	6A (NO - types)
Breaking capacity max.	1250VA (CO - types)
	1500VA (NO - types)
Contact material	AgNi 90/10, AgSnO$_2$
Frequency of operation	
with/without load	360/72000 ops/h
Operate/release time	typ. 8/8ms
Bounce time, form A/form B	typ. 4/6ms

Contact ratings
| Type	Contact	Load	Cycles
IEC 61810			
PE013	C (CO)	5A, 250VAC, cosφ=1, 85°C	30x10³
PE014/PE015	C (CO)	5A, 250VAC, cosφ=1, 85°C	100x10³
PE014	A (NO)	5A, 30VDC, 0ms, 85°C	100x10³
PE015	A (NO)	1,5A, 30VDC, 900/h, 50% DF	100x10³
PE034	A (NO)	6A, 250VAC, cosφ=1, 70°C	50x10³
UL 508			
PE013	C (CO)	5A, 240VAC, resistive, 85°C	30x10³
PE014/PE015	C (CO)	5A, 250VAC, resistive, 85°C	100x10³
PE014	A (NO)	5A, 30VDC, resistive, 85°C	100x10³
PE034	A (NO)	6A, 250VAC, resistive, 70°C	100x10³
PE514	C (CO)	5A, 250VAC, resistive, 85°C	10x10³

Max. DC load breaking capacity

S0177-D

Electrical endurance

S0324-B
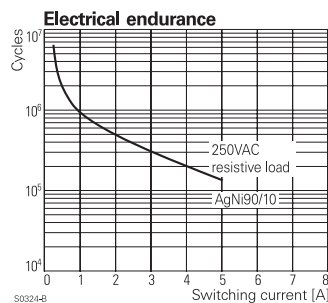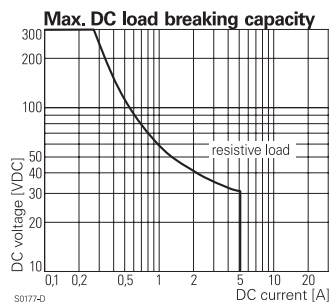
Mechanical endurance, DC coil	>15x10⁶ operations.

Coil Data
Coil voltage range	5 to 48 VDC
Operative range, IEC 61810	2

Coil versions, DC coil
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
3	3	2.25	0.3	45	200
5	5	3.8	0.5	125	200
6	6	4.5	0.6	172	209
9	9	6.8	0.9	405	200
12	12	9.0	1.2	685	210
24	24	18.0	2.4	2725	211
48	48	36.0	4.8	10970	210

Coil operating range DC

S0175-C
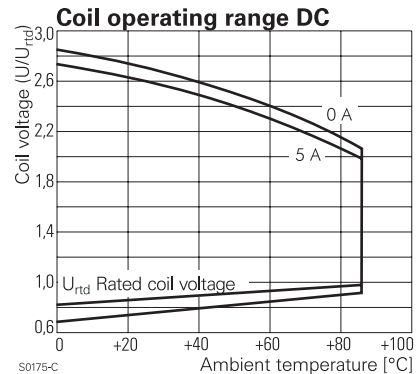
All figures are given for coil without pre-energization, at ambient temperature +23°C.
Other coil voltages on request.

Insulation Data
Initial dielectric strength	
between open contacts	1000V$_{rms}$
between contact and coil	4000V$_{rms}$
Initial insulation resistance	
open contact circuit	>10x10⁹Ω
coil-contact circuit	>10x10⁹Ω
Clearance/creepage	
between contact and coil	≥3.2/4mm
Material group of insulation parts	IIIa

Miniature PCB Relay PE (Continued)

Tracking index of relay base	PTI250V

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter	
Resistance to heat and fire	according EN60335, par.30
Ambient temperature	-40 to 85°C
Category of environmental protection, IEC 61810	RTII - flux proof RTIII - wash tight
Vibration resistance (functional), form A/form B	>15/5g
Shock resistance (destructive)	>100g
Shock resistance (functional/ 11ms), formA/form B	>15/5g

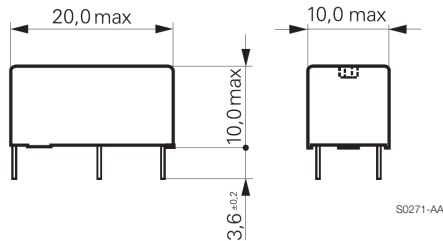|	
Terminal type	PCB-THT
Weight	5g
Resistance to soldering heat THT	
IEC 60068-2-20	260°C/10s (flux proof version)
IEC 60068-2-20	260°C/5s (wash tight version)
Packaging/unit	tube/25 pcs., box/500 pcs.

Dimensions

20,0 max 10,0 max 10,0 max 3,6 ±0,2

S0271-AA

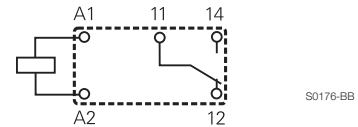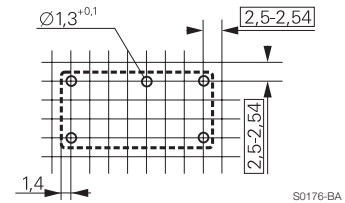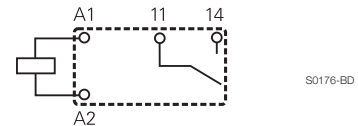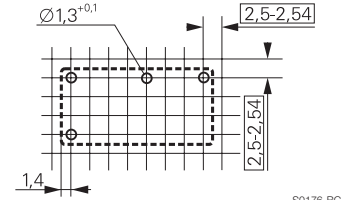### PCB layout / terminal assignment
Bottom view on solder pins

1 form C (CO) version

Ø1,3 +0,1   2,5-2,54   2,5-2,54   1,4

S0176-BA

A1 11 14
A2 12

S0176-BB

1 form A (NO) version

Ø1,3 +0,1   2,5-2,54   2,5-2,54   1,4

S0176-BC

A1 11 14
A2

S0176-BD

Product code structure

| | | | | | | Typical product code | PE | 0 | 1 | 4 | 012 |

Type

| **PE** | Miniature PCB Relay PE |

Version

| **0** | Flux proof | **5** | Wash tight |

Contact arrangement

| **1** | 1 form C (CO) contact | **3** | 1 form A (NO) contact |

Contact material

| **4** | AgNi 90/10 | **3** | AgSnO$_2$ | **5** | AgNi 90/10 gold plated |

Coil

Coil code: please refer to coil versions table

Product code	Version	Contacts	Contact material	Coil	Part number
PE013012	flux proof	1 form C	AgSnO$_2$	12VDC	7-1415539-4
PE014005		1 CO contact	AgNi 90/10	5VDC	1393219-3
PE014006				6VDC	1393219-4
PE014012				12VDC	1393219-6
PE014024				24VDC	1-1393219-0
PE014048				48VDC	1-1393219-3
PE015012			AgNi 90/10 gold plated	12VDC	1-1393219-4
PE015024				24VDC	1-1393219-5
PE034005		1 form A	AgNi 90/10	5VDC	4-1415535-6
PE034006		1 NO contact		6VDC	4-1415535-7
PE034012				12VDC	4-1415535-9
PE034024				24VDC	5-1415535-1
PE034048				48VDC	5-1415535-2
PE514012	wash tight	1 form C	AgNi90/10	12VDC	2-1393219-0
PE514024		1CO contact		24VDC	2-1393219-2
PE515005			AgNi90/10 gold plated	5VDC	7-1415542-8

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