

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)



F0169-C



Typical applications

Industrial electronics, white goods, measurement and control

Approvals

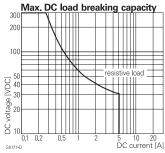
VDE Cert. No. 40011901, UL E214025 Technical data of approved types on request

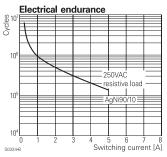
Contact Data
Contact arrangement 1 for

1 form C (CO) or 1 form A (NO) Rated voltage 250VAC 400VAC Max. switching voltage Rated current 5A (CO - types) 6A (NO - types) Breaking capacity max. 1250VA (CO - types) 1500VA (NO - types) AgNi 90/10, AgSnO₂ Contact material Frequency of operation with/without load 360/72000 ops/h Operate/release time typ. 8/8ms typ. 4/6ms Bounce time, form A/form B

Contact ratings

Туре	Contact	Load	Cycles
IEC 61810			
PE013	C (CO)	5A, 250VAC, cosφ=1, 85°C	30x10 ³
PE014/PE015	C (CO)	5A, 250VAC, cosφ=1, 85°C	100x10 ³
PE014	A (NO)	5A, 30VDC, 0ms, 85°C	100x10 ³
PE015	A (NO)	1,5A, 30VDC, 900/h, 50% DF	100x10 ³
PE034	A (NO)	6A, 250VAC, cosφ=1, 70°C	50x10 ³
UL61810-1 (U	L 508)		
PE013	C (CO)	5A, 240VAC, resistive, 85°C	30x10 ³
PE014/PE015	C (CO)	5A, 250VAC, resistive, 85°C	100x10 ³
PE014	A (NO)	5A, 30VDC, resistive, 85°C	100x10 ³
PE034	A (NO)	6A, 250VAC, resistive, 70°C	100x10 ³
PE514	C (CO)	5A, 250VAC, resistive, 85°C	10x10 ³





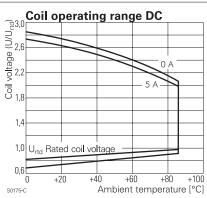
Mechanical endurance, DC coil

>15x10⁶ operations.

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

Coil versions, DC coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	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



All figures are given for coil without pre-energization, at ambient temperature $+23^{\circ}$ 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	>10x10 ⁹ Ω	
coil-contact circuit	>10x10 ⁹ Ω	
Clearance/creepage		
between contact and coil	≥3.2/4mm	
Material group of insulation parts	IIIa	
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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

according EN60335, par.30

Resistance to heat and fire 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

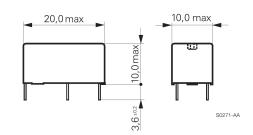
Terminal type PCB-THT Weight 5g

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) tube/25 pcs., box/500 pcs.

Packaging/unit

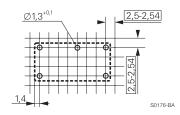
Dimensions

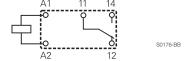


PCB layout / terminal assignment

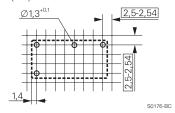
Bottom view on solder pins

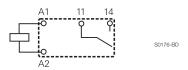
1 form C (CO) version





1 form A (NO) version





0

PE

012

Product code structure

Typical product code

PE Miniature PCB Relay PE

Version n

Flux proof Wash tight

Contact arrangement

1 1 form C (CO) contact 1 form A (NO) contact

Contact material

AgNi 90/10 gold plated AgNi 90/10 AgSnO₂

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	12VDC	1-1393219-4
PE015024			gold plated	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