

Miniature PCB Relay PE

- 1 pole 5 A, 1 form C (CO) or 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

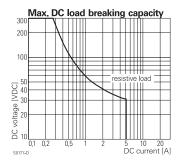
VDE REG.-Nr. 6656, UL E214025 Technical data of approved types on request

Contact Data

Contact Bata	
Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	5A
Breaking capacity max.	1250VA
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

Contact rating	93		
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/PE015	A (NO)	5A, 30VDC, 0ms, 85°C	100x10 ³
PE034	A (NO)	6A, 250VAC, cosφ=1, 70°C	50x10 ³
UL 508			
PE013	C (CO)	5A, 240VAC, resistive, 85°C	30x10 ³
PE014/PE015	C (CO)	5A, 240VAC, 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
Mechanical end	durance, D	C coil $>15x10^6$ operations.	



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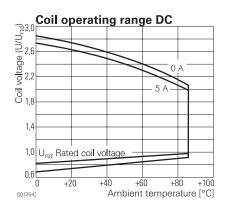
Coil Data

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

Coil	versions,	DC	coil	
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COIL AGE		11			
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°C. Other coil voltages on request.



Insulation Data Initial dielectric strength 1000V_{rms} between open contacts 4000V_{rms} between contact and coil Initial insulation resistance open contact circuit $>10 \times 10^{9} \Omega$ coil-contact circuit >10x10⁹Ω Clearance/creepage between contact and coil ≥3.2/4mm Material group of insulation parts Illa Tracking index of relay base PTI250V

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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change. 1



10,0

S0271-AA

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Miniature PCB Relay PE (Continued)

Other Data

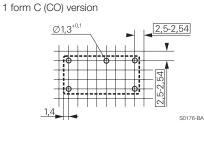
Dimensions

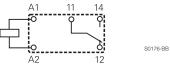
e iller Bata								
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen con								
refer to the Product Compliance Support Center								
www.te.com/customersupport/rohssupportcent								
Resistance to heat and fire	according EN60335, par.30							
Ambient temperature	-40 to 85°C							
Category of environmental protectio	n,							
IEC 61810	RTII - flux proof							
	(RTIII - wash tight on request)							
Vibration resistance (functional), form	n A/form B >15/5g							
Shock resistance (destructive)	>100g							
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	250°C/5s (wash tight version)							
Packaging/unit	tube/25 pcs., box/500 pcs.							

20,0

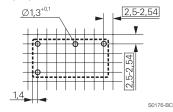
PCB layout / terminal assignment

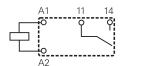
Bottom view on solder pins





1 form A (NO) version





S0176-BD

Product code structure

Produe	ct code structure			Ту	pic	al product code	PE	0	1	4	012
Туре											
	PE Miniature PCB Relay PE										
Version											
() Flux proof	5	Wash tight								
Contact	t arrangement										
1	1 form C (CO) contact	3	1 form A (NO) contact								
Contact	tmaterial										
4	AgNi 90/10	3	AgSnO ₂	5	5	AgNi 90/10 gold	d plated				
Coil											-
	Coil code: please refer to coil versions ta	able									

Product code	Version	Contacts	Contact material	Coil	Part number
PE014005	flux proof	1 form C	AgNi 90/10	5VDC	1393219-3
PE014006			1 CO contact	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

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