

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

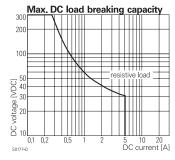
VDE Cert. No. 40011901, UL E214025 Technical data of approved types on request

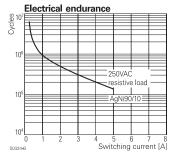
Contact Data
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Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	5A (CO - types)
	6A (NO - types)
Breaking capacity max.	1250VA (CO - types)
	1500VA (NO - types)
Contact material	AgNi 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

Contact rating	ys		
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
UL 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.

5 to 48 VDC

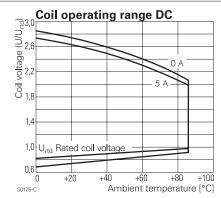
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Coil Data

Coil voltage range Operative range, IEC 61810

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°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	Illa	

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



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.co	m/customersupport/rohssupportcenter
Resistance to heat and fire	according EN60335, par.30
Ambient temperature	-40 to 85°C
Category of environmental protection	٦,
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	250°C/5s (wash tight version)

tube/25 pcs., box/500 pcs.

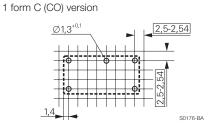
10,0

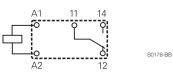
0,00 0,00

10,0

S0271-AA

20,0

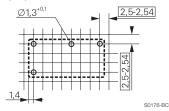


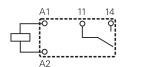


1 form A (NO) version

PCB layout / terminal assignment

Bottom view on solder pins





S0176-BD

Product cod	de structure

Packaging/unit

Dimensions

Product	t code structure			Турі	cal product code	PE	0	1	4	012
Туре										
P	E 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										
C	Coil code: please refer to coil versions ta	ble								

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

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