

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

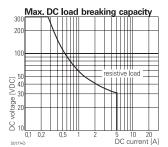
VDE REG.-Nr. 6656, UL E214025 Technical data of approved types on reques

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Conta	ct Da	ita			

Contact Data			
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

	<u> </u>		
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.	



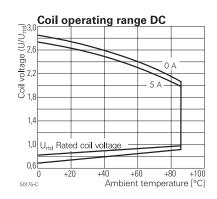
Electrical endurance

Coil Data Coil voltage range 5 to 48 VDC Operative range 2

Operativ	perative range, IEC 61810 2						
Coil versions, DC coil							
Coil	Rated	Operate	Release	Coil	Rated 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
		1.1	1	1	

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



Insulation Data

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	
Tracking index of relay base	PTI250V	

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



10,0

S0271-AA

10,0

3,8

Miniature PCB Relay PE (Continued)

Other Data

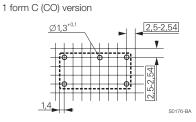
Dimensions

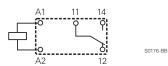
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content						
refer to the Product Compliance Support Center						
www.te.com/customersupport/rohssupportcente						
Resistance to heat and fire according EN60335, par.30						
Ambient temperature	-40 to 85°C					
Category of environmental protection	l,					
IEC 61810	RTII - flux proof					
(RTIII - wash tight on request)						
Vibration resistance (functional), form 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

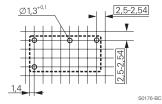
PCB layout / terminal assignment

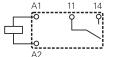
Bottom view on solder pins











S0176-BD

Product code structure Typical product code PE 0 1 4 012 Туре 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 AgSnO₂ 5 AgNi 90/10 gold plated Coil

Coil code: please refer to coil versions table

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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