

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)



F0169-C



Typical applications

Industrial electronics, white goods, measurement and control

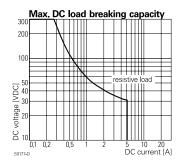
Approvals

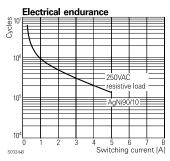
VDE REG.-Nr. 6656, cULusE214025 (version with 1 form A (NO) in process) Technical data of approved types on request

Contact Data	
Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	5A
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	aungs				
Type	Contact	Load	Cycles		
IEC 61810)				
PE013	C (CO)	5A, 250VAC, cosφ=1, 85°C	$30x10^3$		
PE014	C (CO)	5A, 250VAC, cosφ=1, 85°C	100x10 ³		
PE014	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	A (NO)	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		
Mechanica	Mechanical endurance, DC coil >15x106 operations.				

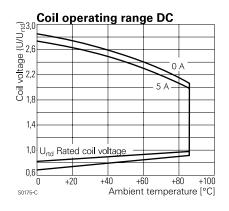




Coil Data		
Coil voltage range	5 to 48 VDC	
Operative range, IEC 61810	2	

Coil vers	sions, DC co	il			
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	IIIa	
Tracking index of relay base	PTI250V	



Miniature PCB Relay PE (Continued)

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.tycoelectronics.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 on request)

Vibration resistance (functional), form A/form B >15/5g

Shock resistance (destructive) >100g

Shock resistance (destructive) >100g

Terminal type PCB-THT

Weight 5g

Resistance to soldering heat THT

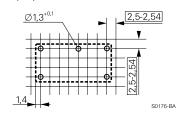
 IEC 60068-2-20
 270°C/10s (flux proof version)

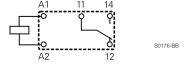
 Packaging/unit
 tube/25 pcs., box/500 pcs.

PCB layout / terminal assignment

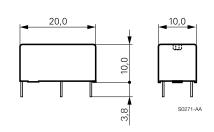
Bottom view on solder pins

1 form C (CO) version

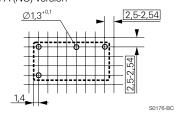


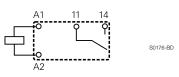


Dimensions



1 form A (NO) version





Product code structure			Typical product code	PE	0	1	4	012
Туре								
PE Miniature PCB Relay PE								
Version								
O Flux proof								
Contact configuration						•		
1 1 form C (CO) contact	3	1 form A (NO) contact						
Contact material							•	
4 AgNi 90/10	3	AgSnO ₂						
Coil								_
Coil code: please refer to coil ve	rsions 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
PE034005		1 form A		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