

## **Electronics**

## Miniature PCB Relay PE

- 1 pole 5 A, 1 CO or 1 NO contact
- **■** Cadmium-free contacts
- Sensitive coil 200 mW
- 4 kV coil-contact
- Ambient temperature 85°C
- Low height 10.0 mm
- Plastic materials according to IEC60335-1 (domestic appliances)
- RoHS compliant (Directive 2002/95/EC) as per product date code 0352

#### **Applications**

Industrial electronics, white goods, measurement and control



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## **Approvals**

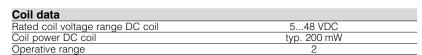
REG.-Nr. 6656, c Sus E214025 (for version with 1 NO in process)

Technical data of approved types on request

Contact data	
Contact configuration	1 CO or 1 NO contact
Contact set	single contact
Type of interruption	micro disconnection
Rated current	5 A
Rated voltage / max.switching voltage AC	240/400 VAC
Maximum breaking capacity AC	1250 VA
Contact material	AgNi90/10
Mechanical endurance	15x10 <sup>6</sup> cycles
Rated frequency of operation with / without load	6/1200 min <sup>-1</sup>

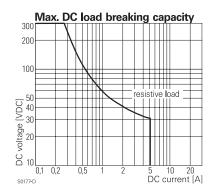
**Contact ratings** 

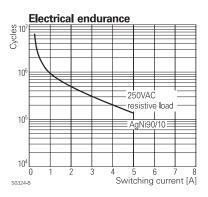
Туре	Load	Cycles
PE014	5 A, 250 VAC, resistive, 85°C, 6 cycles/min, 50% df, EN61810-1	1x10 <sup>5</sup>
PE014	5 A, 30 VDC,resistive, on NO-contact, 85°C, 6 cycles/min,	
	50% duty factor, EN61810-1,	1x10 <sup>5</sup>
PE014	5 A, 240 VAC resistive load, on NO or NC contact, UL508	1x10 <sup>5</sup>
PE034	5 A, 250 VAC, resistive, 85°C, 6 cycles/min, 50% df, EN61810-1	1x10 <sup>5</sup>
PE034	5 A, 30 VDC,resistive, 85°C, 6 cycles/min,	
	50% duty factor, EN61810-1,	1x10 <sup>5</sup>
PE034	5 A, 240 VAC resistive load, UL508	1x10 <sup>5</sup>

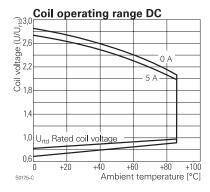


Coil versions, DC-coil							
Coil	Rated	Operate	Release	Coil	Rated coil		
code	voltage	voltage	voltage	resistance	power		
	VDČ	VDČ	VDČ	Ohm	mW		
005	5	3.8	0.5	125±10%	200		
006	6	4.5	0.6	172±10%	209		
012	12	9.0	1.2	685±10%	210		
024	24	18.0	2.4	2725±10%	211		
048	48	36.0	4.8	10970±10%	210		

All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request







Datasheet Rev. EK1 Issued 2005/11 www.tycoelectronics.com www.schrackrelays.com

Dimensions are in mm unless otherwise specified and are shown for reference purposes only.

Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.





**Electronics** 

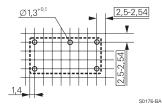
## Miniature PCB Relay PE (Continued)

Insulation		
Dielectric strength coil-contact circuit	400	00 V <sub>rms</sub>
open contact circuit	100	00 V <sub>rms</sub>
Clearance / creepage coil-contact circuit	≥ 3,2	? / 4 mm
Material group of insulation parts		IIIa
Tracking index of relay base PTI 250		
Insulation to IEC 60664-1		
Type of insulation coil-contact circuit	b	asic
open contact circuit	fund	ctional
Rated insulation voltage	25	50 V
Pollution degree	3	2
Rated voltage system	230 V	400 V
Overvoltage category		III

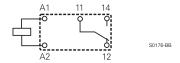
Oth	
Other data	
RoHS - Directive 2002/95/EC	compliant as per product date code 0352
Flammability class according to UL94	V-0
Ambient temperature range	-4085°C
Operate- / release time	typ. 5/2 ms
Bounce time NO / NC contact	typ. 1/5 ms
Vibration resistance (function) NO / NC contact	ot > 15/5 g
Shock resistance (destruction)	> 100 g
Category of protection	RTII - flux proof
	(RTIII - wash tight on request)
Resistance to soldering heat flux-proof version	270°C / 10 s
Relay weight	5 g
Packaging unit	25/500 pcs

# **PCB layout / terminal assignment** Bottom view on solder pins

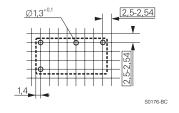
## CO version

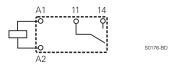


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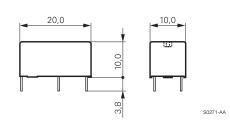


### NO version





## **Dimensions**





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	Coil code:	please	refer	to coil	versions	table

Product key	Version	Contacts	Contact material	Coil	Part number
PE014005	flux proof	1 CO contact	AgNi 90/10	5 VDC	0-1393219-3
PE014006	·			6 VDC	0-1393219-4
PE014012				12 VDC	0-1393219-6
PE014024				24 VDC	1-1393219-0
PE014048				48 VDC	1-1393219-3
PE034005		1 NO contact		5 VDC	4-1415535-6
PE034006				6 VDC	4-1415535-7
PE034012				12 VDC	4-1415535-9
PE034024				24 VDC	5-1415535-1
PF034048				48 VDC	5-1415535-2

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