

General Purpose Relays



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

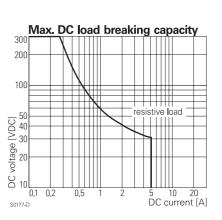
F0169-B

Approvals

REG.-Nr. 6656, CRU us E214025 (for version with 1 NO in process) Technical data of approved types on request

Contact data

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 ⁶ cycles
Rated frequency of operation with / without load	6/1200 min ⁻¹



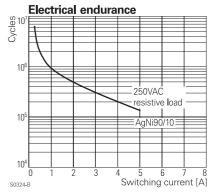
Contact ratings

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

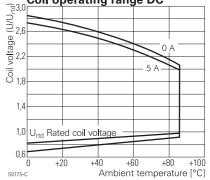
Coil data	
Rated coil voltage range DC coil	548 VDC
Coil power DC coil	typ. 200 mW
Operative range	2

Coil versions, DC-coil					
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDČ	VDČ	VDČ	Ohm	mW
003	3	2.25	0.3	45±10%	200
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 preepergization, at ambient temperature $+23^{\circ}$ C					

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







Datasheet Rev. GC1 Issued 2007/03 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.

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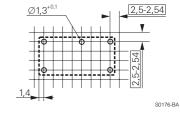
Miniature PCB Relay PE (Continued)

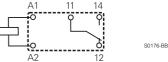
Insulation			
Dielectric strength coil-contact circuit 4000 V _{rms}) V _{rms}	
open contact circuit	1000) V _{rms}	
Clearance / creepage coil-contact circuit	≥ 3,2 / 4 mm		
Material group of insulation parts	Illa		
Tracking index of relay base	PTI 250		
Insulation to IEC 60664-1			
Type of insulation coil-contact circuit	basic		
open contact circuit	functional		
Rated insulation voltage	250 V		
Pollution degree	3	2	
Rated voltage system	230 V	400 V	
Overvoltage category		11	

PCB layout / terminal assignment

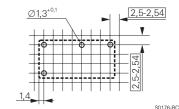
Bottom view on solder pins







NO version



11

14 9

Dimensions

Relay weight

Packaging unit

Other data

RoHS - Directive 2002/95/EC

Ambient temperature range

Bounce time NO / NC contact

Shock resistance (destruction)

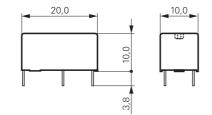
Operate- / release time

Category of protection

Flammability class according to UL94

Vibration resistance (function) NO / NC contact

Resistance to soldering heat flux-proof version



compliant as per product date code 0352

V-0 -40...85°C typ. 5/2 ms typ. 1/5 ms

> 15/5 g > 100 g

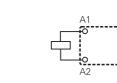
RTII - flux proof

(RTIII - wash tight on request)

270°C / 10 s

5 g

25/500 pcs



S0271-AA



Product key Ρ Ε 0 4 Туре Version 0 flux proof Contact configuration **1** 1 CO contact NO contact 3 Contact material 4 AgNi 90/10 Coil

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
PE034048				48 VDC	5-1415535-2

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