

Electronics

SCHRACK

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

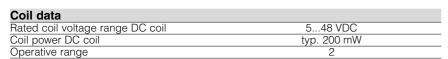
REG.-Nr. 6656, c Sus E214025 (for version with 1 NO in process) Technical data of approved types on request

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

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Contact material	AgNi90/10
Mechanical endurance	15x10 ⁶ cycles
Rated frequency of operation with / without load	6/1200 min ⁻¹

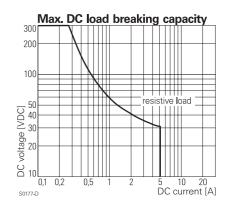
Contact ratings

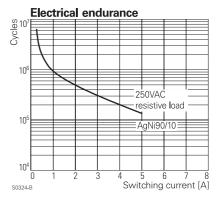
Contac	i iddingo	
Type	Load	Cycles
PE014	5 A, 250 VAC, resistive, 85°C, 6 cycles/min, 50% df, EN61810-1	1x10 ⁵
PE014	5 A, 30 VDC,resistive, on NO-contact, 85°C, 6 cycles/min,	
	50% duty factor, EN61810-1,	1x10 ⁵
PE014	5 A, 240 VAC resistive load, on NO or NC contact, UL508	1x10 ⁵
PE034	5 A, 250 VAC,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

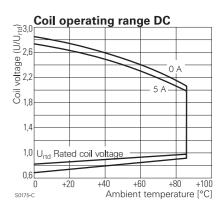


Coil vers	sions, DC-coil				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDČ	VDČ	VDČ	Ohm	mW
003	3	2.25	0.3	45±10%	200
005	5	3.8	0.5	125±10%	200
006	6	4.5	0.6	172±10%	209
012	12	9.0	1.2	685±10%	210
024	24	18.0	2.4	2725±10%	211
048	48	36.0	4.8	10970+10%	210

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









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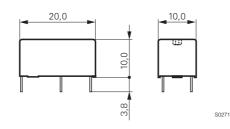
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Miniature PCB Relay PE (Continued)

Insulation		
Dielectric strength coil-contact circuit	400	00 V _{rms}
open contact circuit	100	00 V _{rms}
Clearance / creepage coil-contact circuit	≥ 3,2	? / 4 mm
Material group of insulation parts	I	lla
Tracking index of relay base	PT	I 250
Insulation to IEC 60664-1		
Type of insulation coil-contact circuit	ba	asic
open contact circuit	func	ctional
Rated insulation voltage	25	50 V
Pollution degree	3	2
Rated voltage system	230 V	400 V
Overvoltage category		III

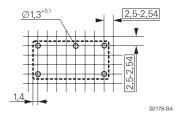
Other data	
RoHS - Directive 2002/95/EC	compliant as per product date code 0352
Flammability class according to UL94	V-0
Ambient temperature range	-4085°C
Operate- / release time	typ. 5/2 ms
Bounce time NO / NC contact	typ. 1/5 ms
Vibration resistance (function) NO / NC contact	ot > 15/5 g
Shock resistance (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

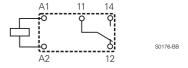
Dimensions



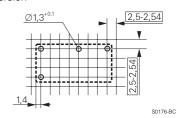
PCB layout / terminal assignment Bottom view on solder pins

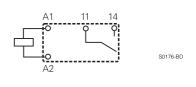
CO version





NO version





Product key		P E 0 4	
Туре			
Version			
0 flux proof			
Contact configuration			
1 1 CO contact	3 NO contact		
Contact material			
4 AgNi 90/10			
Coil		<u> </u>	
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