

Miniature PCB Relay PE bistable

■ Polarized bistable version

- 1 pole 5 A, 1 form C (CO) or 6A, 1 form A (NO) contact
- Sensitive version with 200mW coil
- Ambient temperature 70°C
- Low height 10.0mm
- Plastic materials according to IEC 60335-1 (domestic appliances)

Typical applications

Room thermostats, electricity meters, home automation, white goods, battery powered controls.



Approvals

VDE Cert. No. 40011901 (for AgNi90/10 contacts only), UL E214025

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 (CO - types) 6A (NO - AgNi - types)
Breaking capacity max.	1250VA (OO - types) 1500VA (NO AgNi - types)

Contact material	AgNi 90/10, AgSnO ₂ AgNi 90/10 HTV (gold plated)
Frequency of operation, with/without load	360/72000 ops/h

Set/reset time	typ. 8/8ms
Bounce time, form A/form B	4/7ms

Contact ratings

Type	Contact	Load	Cycles
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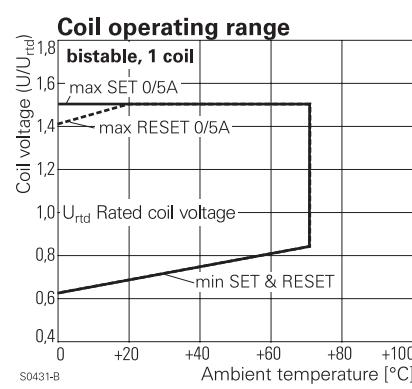
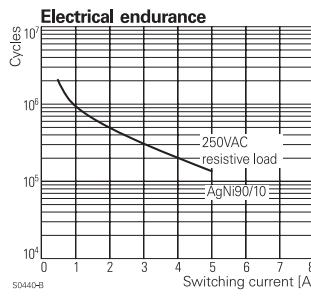
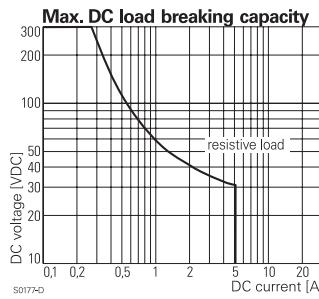
IEC 61810

PE014	C (CO)	5A, 250VAC, cosφ=1, 85°C	100x10 ³
PE014	A (NO)	5A, 30VDC, 0 ms, 85°C	100x10 ³
PE034	NO	6A, 250VAC cosφ=1, 70°C	20x10 ³

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PE013	C (CO)	5A, 240VAC, resistive, 85°C	30x10 ³
PE014	NO (of CO)	B300	6.000
PE514	NO (of CO)	R300	6.000
PE514	C (CO)	5A, 250VAC, general purpose, 85°C	6.000
PE033	N (NO)	5A, 240VAC, resistive, 85°C	50x10 ³
PE014	C/A/B	5A, 250VAC, resistive, 85°C	100x10 ³
PE034	A (NO)	6A, 250VAC, resistive, 70°C	100x10 ³

Mechanical endurance >5x10⁶ operations.



Miniature PCB Relay PE bistable (Continued)
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

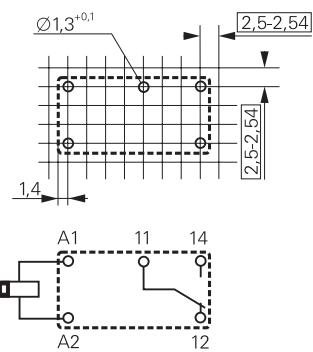
Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content	
refer to the Product Compliance Support Center at	
www.te.com/customersupport/rohssupportcenter	
Resistance to heat and fire	according EN60335, par.30
Ambient temperature	-40 to 85°C
70°C at 100% duty factor	
Category of environmental protection	
IEC 61810	RTII - flux proof
RTIII - wash tight on request	
Shock resistance (destructive)	>100g
Shock resistance (functional/ 11ms), form A/form B	>15/5g
Terminal type	PCB-THT
Resistance to soldering heat THT	
IEC 60068-2-20	260°C/10s (flux proof version)
260°C/5s (wash tight version)	
Packaging/unit	tube/25 pcs., box/500 pcs.

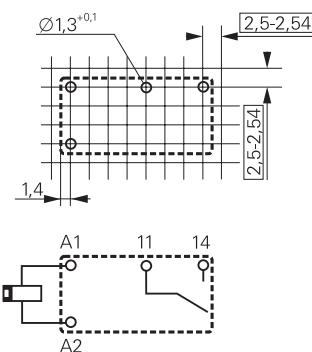
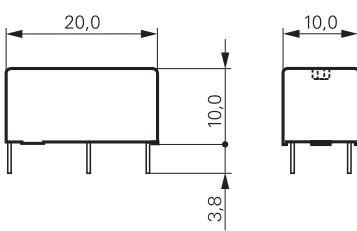
PCB Layout / terminal assignment

Bottom view on solder pins

1 form C (CO) version



1 form A (NO) version


Dimensions

Product code structure

 Typical product code **PE 0 1 4 F12**

Type	PE Miniature PCB Relay PE bistable			
Version	0 Flux proof 5 Wash tight (on request)			
Contact configuration	1 1 form C (CO) contact 3 1 form A (NO) contact			
Contact material	4 AgNi 90/10 3 AgSnO ₂ 5 AgNi 90/10 HTV (gold plated)			
Coil	Coil code: please refer to coil versions table			

Product code	Version	Contacts	Contact material	Coil	Part number
PE014F03	wash tight			bistable	2-1415539-0
PE014F02	flux proof	1 form C	AgNi 90/10	polarity F	9-1415389-1
PE014F03		1 CO contact			1415390-1
PE014F05					1-1415390-1
PE014F06					2-1415390-1
PE014F12					3-1415390-1
PE014F24					5-1415390-1
PE014H02				bistable	7-1415390-1
PE014H03				polarity H	8-1415390-1
PE014H05					9-1415390-1
PE014H06					1415391-1
PE014H12					1-1415391-1
PE014H24					2-1415391-1
PE015F05	1 form C		AgNi 90/10 HTV	bistable	3-1415542-4
PE034F09	1 form A		AgNi 90/10	polarity F	1415543-7
PE034F12	1 NO contact				1415544-4