

## 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)

Typical applications  
Industrial electronics, white goods, measurement and control



F0169-C



### Approvals

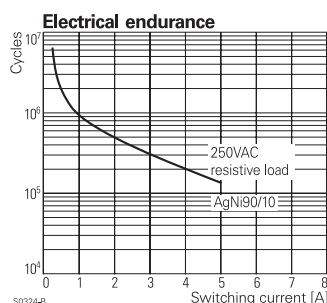
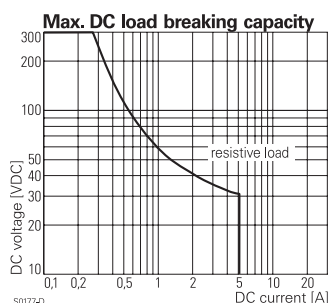
VDE Cert. No. 40011901, UL E214025  
Technical data of approved types on request

### Contact Data

Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	5A
Breaking capacity max.	1250VA
Contact material	AgNi 90/10, AgSnO <sub>2</sub>
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

Type	Contact	Load	Cycles
<b>IEC 61810</b>			
PE013	C (CO)	5A, 250VAC, cosφ=1, 85°C	30x10 <sup>3</sup>
PE014/PE015	C (CO)	5A, 250VAC, cosφ=1, 85°C	100x10 <sup>3</sup>
PE014	A (NO)	5A, 30VDC, 0ms, 85°C	100x10 <sup>3</sup>
PE015	A (NO)	1.5A, 30VDC, 900/h, 50% DF	100x10 <sup>3</sup>
PE034	A (NO)	6A, 250VAC, cosφ=1, 70°C	50x10 <sup>3</sup>
<b>UL 508</b>			
PE013	C (CO)	5A, 240VAC, resistive, 85°C	30x10 <sup>3</sup>
PE014/PE015	C (CO)	5A, 240VAC, resistive, 85°C	100x10 <sup>3</sup>
PE014	A (NO)	5A, 30VDC, resistive, 85°C	100x10 <sup>3</sup>
PE034	A (NO)	6A, 250VAC, resistive, 70°C	100x10 <sup>3</sup>
Mechanical endurance, DC coil			>15x10 <sup>6</sup> operations.



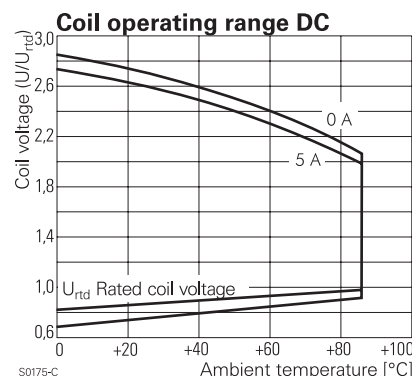
### Coil Data

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

### Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power 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 <sub>rms</sub>
between contact and coil	4000V <sub>rms</sub>
Initial insulation resistance	
open contact circuit	>10x10 <sup>9</sup> Ω
coil-contact circuit	>10x10 <sup>9</sup> Ω
Clearance/creepage	
between contact and coil	≥3.2/4mm
Material group of insulation parts	IIla
Tracking index of relay base	PTI250V

