

Miniature Power PCB Relay PBH 105°C

- 1pole 6 A, 1 CO or 1 NO contact
- **■** Environmentally-friendly cadmium-free contacts
- Class F coil system standard
- For ambient temperatures up to 105°C
- Product in accordance to IEC60335-1
- RoHS compliant (Directive 2002/95/EC) as per product date code 0346



F0224BB

Applications

White goods, domestic appliances

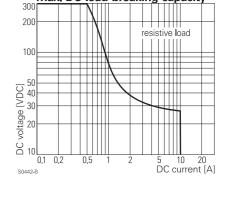
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REG.-Nr. 121560, **c us** E214025
Technical data of approved types on request

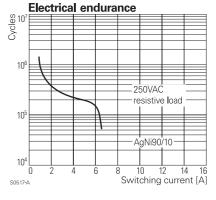
Contact data		
Contact configuration	1 CO or 1 NO contact	
Contact set	single contact	
Type of interruption	micro disconnection	
Rated current	6 A	
Rated voltage / max.switching voltage AC	250/400 VAC	
Maximum breaking capacity AC	1500 VA	
Limiting making capacity, max 4 s, duty factor 10%	10 A	
Contact material	AgNi 90/10	
Mechanical endurance	2x10 ⁶ cycles	
Bated frequency of operation with / without load	6/600 min ⁻¹	

Contact ratings

Туре	Load	Cycles
PBH14	6.5 A, 250 VAC, 105°C, resistive, 50Hz, EN61810-1	10x10 ³
PBH14	(NO tested) 2 A, 250 VAC, 105°C, cosφ=0.55, 50Hz, EN61810-1	250x10 ³
PBH14	(NO tested) 6.5 A, 250 VAC, 105°C, resistive, 50Hz, EN61810-1	100x10 ³
PBH34	2 A, 250 VAC, 105°C, cosφ=0.55, 50Hz, EN61810-1	250x10 ³
PBH34	6.5 A, 250 VAC, 105°C, resistive, 50Hz, EN61810-1	100x10 ³



Max. DC load breaking capacity

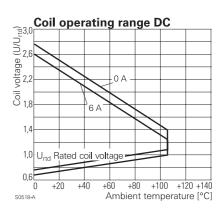


Coil data	
Rated coil voltage range DC coil	536 VDC
Coil power DC coil	typ. 360 mW
Operative voltage range, % of rated coil voltage	90100%

Coil versions, DC-coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ohm	mW
005	5	3.75	0.5	70±10%	357
006	6	4.5	0.6	100±10%	360
009	9	6.75	0.9	225±10%	360
012	12	9.0	1.2	400±10%	360
018	18	13.5	1.8	900±10%	360
022	22	16.5	2.2	1344±10%	360
024	24	18.0	2.4	1600±10%	360
048	48	36	4.8	6400±10%	360
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All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request





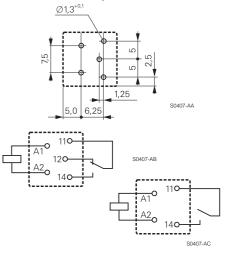


Miniature Power PCB Relay PBH 105°C (Continued)

2500 V _{rms}
1000 V _{rms}
≥ 3/4 mm
≥ 4/5 mm
Illa
CTI 250
basic
functional
250 V
3
230/400 V
III

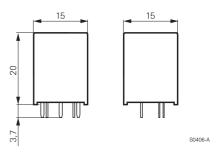
Other data	
RoHS - Directive 2002/95/EC	compliant as per product date code 0346
Flammability class according to UL94	V-0
GWFI to IEC 60335-1	≥ 850°C
GWIT to IEC 60335-1	≥ 775°C
Ambient temperature range	-20105°C
Operate- / release time	< 20 ms
Bounce time NO / NC contact	< 15 ms
Vibration resistance (function) NO / NC contact	ct >10/4g, 30400Hz
Shock resistance (destruction)	100 g
Category of protection	RTII - flux proof
Mounting	pcb
Resistance to soldering heat	270°C / 10 s
Relay weight	5.4 g
Packaging unit	35/1050 pcs

PCB layout / terminal assignment Bottom view on solder pins



1) Layout note: No openings (e.g. holes, slots, cutouts, unused pins, open through connexions, etc.) allowed under the relay base. The relay base must be fully covered by the pcb, recommended minimum distance between the relay and the edge of the printed circuit board is 5 mm. For more information, please contact our application support.

Dimensions



'Schrack' section.





Miniature Power PCB Relay PBH 105°C (Continued)

Product key		P B H 4
Type		
Version		
H High temperature vers	on	
Contact configuration		
1 1 CO contact	3 1 NO contact	
Contact material		
4 AgNi 90/10		
Coil		
Coil code: please refer to o	coil versions table	

Other types on request

Product key	Version	Contacts	Contact material	Coil	Part number
PBH14005	high	1 CO contact	AgNi 90/10	5 VDC	9-1415356-1
PBH14006	temperature			6 VDC	8-1415356-1
PBH14009	version			9 VDC	7-1415356-1
PBH14012				12 VDC	6-1415356-1
PBH14018				18 VDC	6-1415357-1
PBH14022				22 VDC	7-1415357-1
PBH14024				24 VDC	6-1415355-1
PBH14036				36 VDC	9-1415355-1
PBH34005		1 NO contact		5 VDC	5-1415356-1
PBH34006				6 VDC	4-1415356-1
PBH34009				9 VDC	3-1415356-1
PBH34012				12 VDC	2-1415356-1
PBH34018				18 VDC	8-1415357-1
PBH34022				22 VDC	9-1415357-1
PBH34024				24 VDC	1-1415356-1
PBH34036				36 VDC	0-1415356-1