

Miniature Power PCB Relay PBH 105°C

- 1pole 6 A, 1 form C (CO) or 1 form A (NO) contact
- **■** Environmentally-friendly cadmium-free contacts
- Class F coil system standard
- For ambient temperatures up to 105°C
- Product in accordance to IEC 60335-1



PE c us

Typical applications White goods, domestic appliances.

Approvals VDE Cert. No. 40008364, UL E214025 Technical data of approved types on request.

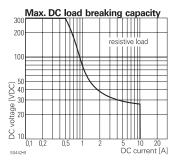
Contact Data	
Contact arrangement 1 fc	orm C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	6A
Limiting continuous current	6.5 A
Limiting making current, max 4 s, duty fact	tor 10% 10A
Breaking capacity max.	1500VA
Contact material	AgNi 90/10
Frequency of operation, with/without load	360/36000h ⁻¹
Operate/release time max.	10/20ms
Bounce time max., form A/form B	10/15ms

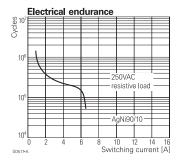
Contact ratings

Contact is	ımıgə		
Type	Contact	Load	Cycles
IEC 61810			
PBH14	C (CO)	6.5A, 250VAC, cosφ=1, 105°C	10x10 ³
PBH34	A (NO)	6.5A, 250VAC, cosφ=1, 105°C	100x10 ³
PBH14	A of C	6.5A, 250VAC, cosφ=1, 105°C	100x10 ³
PBH34	A (NO)	2A, 250VAC, cosφ=0.55, 105°C	250x10 ³
PBH14	A of C	2A, 250VAC, cosφ=0.55, 105°C	250x10 ³
PBH34	A (NO)	6.5A, 440VAC, cosφ=1, 105°C	50x10 ³
UL 508			
PBHx4	A (NO)	6A, 415VAC, cosφ=1, 105°C	50x10 ³

Mechanical endurance, DC coil

2x10⁶ operations

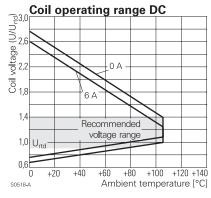




Coil Data	
Coil voltage range	5 to 36 VDC
Operative voltage range, % of rated coil voltage	90 to 100 %

Oon vers	sions, DO co				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
005	5	3.75	0.5	70	357
006	6	4.50	0.6	100	360
009	9	6.75	0.9	225	360
012	12	9.00	1.2	400	360
018	18	13.50	1.8	900	360
022	22	16.50	2.2	1344	360
024	24	18.00	2.4	1600	360
048	48	36.00	4.8	6400	360

All figures are given for coil without pre-energization, at ambient temperature $+23^{\circ}$ C. Other coil voltages on request.



000V _{rms}
500V
mo
3/4mm
1/5mm
Illa
TI250



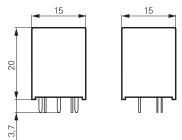
Miniature Power PCB Relay PBH 105°C (Continued)

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

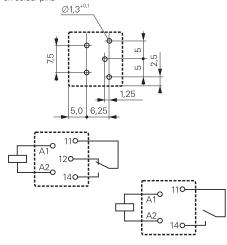
WWW.to.ooi	The design of th
Resistance to heat and fire	according EN60335, par.30
Ambient temperature, DC coil	-20 to +105°C
Category of environmental protection	
IEC 61810	RTII - flux proof
Vibration resistance (functional)	
form A/form B, 30 to 400Hz	>10/4g
Shock resistance (destructive)	>100g
Terminal type	PCB-THT
Weight	5.4g
Resistance to soldering heat THT	
IEC 60068-2-20	270°C/10s
Packaging/unit	tube/35 pcs., box/1050 pcs.

Dimensions



PCB layout1) / 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.

Product code structure	Typical product code P	В Н	1	4	012
Type PB Miniature Power PCB Relay PB 105°C					
Version					
H High temperature version					
Contact configuration					
1 1 form C contact (1 CO) 3 1 form A contact (1 NO)					
Contact material					
4 AgNi 90/10					
Coil					
Coil code: please refer to coil versions table					
Other types on request.					

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