

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



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Approvals

Typical applications

VDE REGNr. 121560, UL E214025
Technical data of approved types on reques

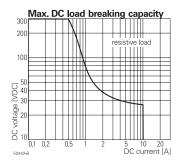
White goods, domestic appliances

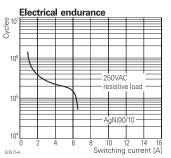
Contact Data				
Contact arrangement	1 form C (CO) or 1 form A (NO)			
Rated voltage	250VAC			
Max. switching voltage	400VAC			
Rated current	6A			
Limiting continuous current	6.5 A			
imiting making current, max 4 s, duty factor 10% 10A				
Breaking capacity max.	1500VA			
Contact material	AgNi 90/10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

Туре	Contact	Load	Cycles
IEC 6181	0		
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, cosq=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





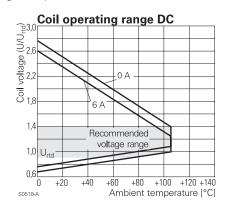
Coil Data

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

Coil versions, DC coil Rated Operate Release Coil Rated coil Coil code voltage voltage voltage resistance power VDČ VDČ VDČ 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 1.2 400 360 360 018 18 13.50 1.8 900 022 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°C.
 Other coil voltages on request.
 Other coil voltages on request.



Insulation Data Initial dielectric strength 1000V_{rms} between open contacts 2500V_{rms} between contact and coil Clearance/creepage between contact and coil form C (CO) version ≥3/4mm ≥4/5mm form A (NO) Material group of insulation parts Illa Tracking index of relay base PTI250

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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change. 1

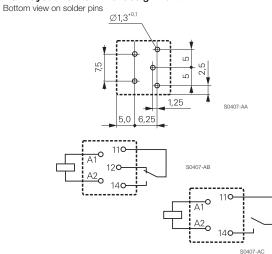


Miniature Power PCB Relay PBH 105°C (Continued)

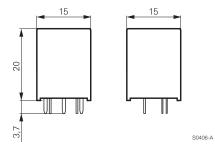
Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content			
refer to the Product Compliance Support Center a			
www.te.com	n/customersupport/rohssupportcenter		
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.		

PCB layout¹⁾ / terminal assignment



Dimensions



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 PB H	1 4 012			
Туре					
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

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