

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



DYE CALUS

Typical applications
White goods, domestic appliances.

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

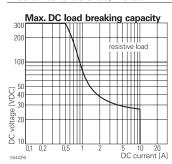
Contact Data	
Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	6A
Limiting continuous current	6.5 A
Limiting making current, max 4 s, duty	factor 10% 10A
Breaking capacity max.	1500VA
Contact material	AgNi 90/10
Frequency of operation,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

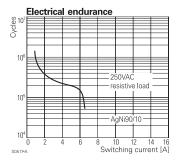
Contact ratings

Contact is	aungs		
Туре	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 61810-	-1 (UL508)		
PBHx4	A (NO)	6A, 415VAC, cosφ=1, 105°C	50x10 ³

Mechanical endurance, DC coil

2x10⁶ operations



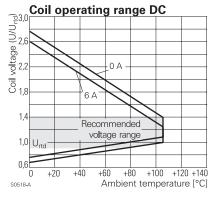


Coil Data	
Coil voltage range	5 to 36 VDC
Operative voltage range, % of rated coil voltage	90 to 100 %

Coil versions, DC coil

Con vers	nons, DC Co				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%$	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.



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



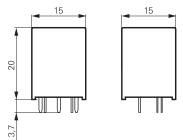
Miniature Power PCB Relay PBH 105°C (Continued)

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

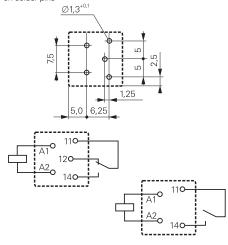
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Resistance to heat and fire	according EN60335, par.30
Ambient temperature, DC coil	-20 to +105°C
Category of environmental protection	
IEC 61810	RTII - flux proof
Vibration resistance (functional)	
form A/form B, 30 to 400Hz	>10/4g
Shock resistance (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	РВ	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

单击下面可查看定价,库存,交付和生命周期等信息

>>TE Connectivity(泰科)