

Miniature Power PCB Relay PB

- 1pole 10A, 1 form C (CO) or 1 form A (NO)
- Environmentally-friendly cadmium-free contacts
- Class F coil system standard
- Compact and simple design gives high process security

White goods, small home appliances, heating temperature controllers.

Product in accordance to IEC 60335-1

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



DE cNus

Coil

Coil Data	PB1	PB5	PB6
Coil voltage range	5 to 48 VDC	5 to 24 VDC	5 to 36 VDC
Operative range, IEC 61810	2	2	2

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Contact Data

Approvals

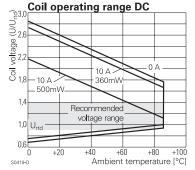
Typical applications

Contact Data	l			
Contact arranger	ment	1 form C (CO) or 1 form A (NO)	
Rated voltage		250VAC		
Max. switching v	oltage	400VAC		
Rated current		10A		
Limiting making of	current, max 4 s	, duty factor 10% 15A		
Breaking capacit	y max.	2500VA		
Contact material		AgNi 90/10, AgSnO ₂		
Frequency of ope	eration, with/witl	hout load 360/36000h-1		
Operate/release	time max.	10/20ms		
Bounce time max	x., form A/form	B 10/15ms		
Contact ratings	6			
Туре	Contact	Load	Cycles	
IEC 61810				
PB114; PB113	A/B (NO/NC)	10A/3A, 250VAC, cosφ=1, 85°C	30x10 ³	
PB114; PB514	A of C	10A, 250VAC, cosφ=1, 85°C	30x10 ³	
PB134; PB133	A (NO)	10A, 250VAC, cosφ=1, 85°C	20x103	
PB134	A (NO)	6.5A, 440VAC, cosφ=1, 85°C	50x10 ³	
PB634	A (NO)	10A, 250VAC, cosφ=1, 85°C	100x103	
UL 61810-1 (UL	508)			
PB1x4	A (NO)	10A, 250VAC, cosφ=1, 85°C	20x10 ³	
PB113	A (NO)	10A, 250VAC GP, 85°C	6x10 ³	
PB5x4	A (NO)	10A, 250VAC GP, 85°C	20x10 ³	
PB634	A (NO)	10A, 250VAC GP, 85°C	100x10 ³	
Mechanical endu	irance, DC coil	5x10 ⁶ operations		

-	COII	naleu	Operate	nelease	COII	
	code	voltage	voltage	voltage	resistance	
_		VDC	VDC	VDC	Ω±10%	
	Coil vers	sions, DC-co	il, 360mW			
_	005	5	3.75	0.5	70	
_	006	6	4.50	0.6	100	
_	009	9	6.75	0.9	225	
_	012	12	9.00	1.2	400	
_	018	18	13.50	1.8	900	
_	022	22	16.50	2.2	1344	
_	024	24	18.00	2.4	1600	
_	048	48	36.00	4.8	6400	
	Coil vers	sions, DC-co	il, 500mW			
	005	5	3.75	0.5	48	
	006	6	4.5	0.6	69	
	012	12	9	1.2	274	
	024	24	18	2.4	1097	
_	036	36	27	3.6	2592	
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All figures are given for coil without pre-energization, at ambient temperature +23°C.



Other coil voltages on request.

Coil versions, DC coil

Ratod

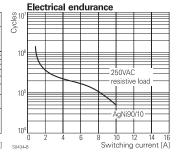
Coil

Insulation Data

mould for Bata		
Initial dielectric strength		
between open contacts	1000Vrms	
between contact and coil	2500Vrms	
Clearance/creepage		
between contact and coil		
form C (CO) version	≥3/4mm	
form A (NO) version	≥4/5mm	
Material group of insulation parts	Illa	
Tracking index of relay base	PTI250	

Max. DC load breaking capacity

300



(typical values for PB134)

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Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Catalog 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

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

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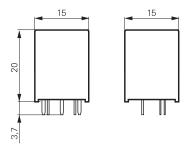


Miniature Power PCB Relay PB (Continued)

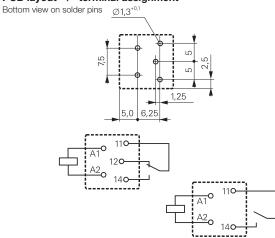
Other Data

Material compliance: EU RoHS/ELV, CI	hina RoHS, REACH, Halogen content			
refer to the Product Compliance Support Center at				
www.te.com	www.te.com/customersupport/rohssupportcenter			
Resistance to heat and fire				
version PB1, PB5	according EN60335, par.30			
Ambient temperature, DC coil	-40 to +85°C			
Category of environmental protection				
IEC 61810	RTII - flux proof			
Vibration resistance (functional), form A/form B, 30 to 400Hz				
PB1, PB6	>10/4g			
PB5	>10/6 g			
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



¹⁾ Layout note:

No openings (e.g. holes, slots, cutouts, unused pins, open through connections, 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	1	1	4	012
Туре							
PE	Miniature Power PCB Relay PB						
Version							
1	Standard version	5	500 mW version				
		6	High performance version (form A version only)				
Contact a	arrangement						
1	1 form C contact (1 CO)	3	1 form A contact (1 NO)				
Contact r	naterial						
3	AgSnO ₂	4	AgNi 90/10				
Coil							-
Co	bil code: please refer to coil versions ta	ble					

Coil **Contact material** Product code Version Contacts Part number 6-1415535-8 6-1415535-9 PB113009 Standard 1 form C AgSnO 9VDC PB113012 class F CO contact 12VDC PB113024 24VDC 2-1415543-0 PB114005 AgNi 90/10 5VDC 6-1415029-1 PB114006 7-1415029-1 6VDC PB114012 12VDC 8-1415029-1 9-1415029-1 PB114024 24VDC PB134005 5VDC 1 form A 1415030-1 PB134006 1 NO contact 6VDC 1-1415030-1 PB134012 12VDC 2-1415030-1 PB134024 24VDC 3-1415030-1 PB514012 500 mW 1 form C 12VDC 2-1415538-5 PB514024 version 1 CO contact 5-1415535-6 24VDC PB634005 High 1 form A 5VDC 3-1415541-8 3-1415541-9 PB634006 performance 1 NO contact 6VDC PB634009 4-1415541-0 version 9VDC 4-1415541-1 PB634012 12VDC PB634024 24VDC 4-1415541-2 PB634036 36VDC 4-1415541-3

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