

SCHRACK MINIATURE POWER PCB RELAY PB 105°C

GENERAL PURPOSE | LOW POWER PCB RELAYS

FEATURES

- 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
- Plastic materials according to IEC 60335-1 (domestic appliances)



APPLICATIONS

- · White goods
- Domestic appliances

APPROVALS

- VDE Cert. No. 40008364
- UL E214025

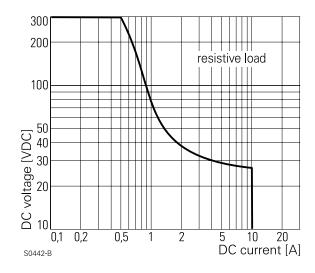


Technical data of approved types on request.

CONTACT DATA

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

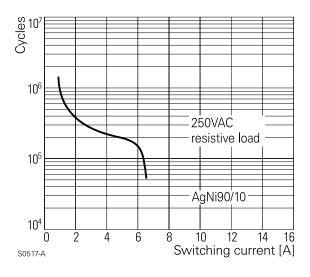
MAX. DC LOAD BREAKING CAPACITY



CONTACT RATINGS FOR SR4

Туре	Contact	Load	Cycles	
IEC 61810				
PBH14	C (CO)	6.5 A, 250 VAC, cosφ=1, 105 °C	10x10 ³	
PBH34	A (NO)	6.5 A, 250 VAC, cosφ=1, 105 °C	100x10 ³	
PBH14	A of C	6.5 A, 250 VAC, cosφ=1, 105 °C	100x10³	
PBH34	A (NO)	2 A, 250 VAC, cosφ=0.55, 105 °C	250x10³	
PBH14	A of C	2 A, 250 VAC, cosφ=0.55, 105 °C	250x10 ³	
PBH34	A (NO)	6.5 A, 440 VAC, cosφ=1, 105 °C	50x10³	
UL61810-1 (former UL 508)				
PBHx4	A (NO)	6 A, 415 VAC, cosφ=1, 105 °C	50x10³	
Mechanical endurance, DC coil		2x10 ⁶ operations		

ELECTRICAL ENDURANCE



COIL DATA

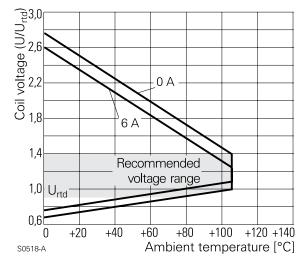
	PB6
Coil voltage range	5 to 36 VDC
Operative voltage range, % of rated coil voltage	90 to 100 %

COIL VERSIONS, DC-COIL

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω ±10%	Rated coil power 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 $^{\circ}\text{C}.$

COIL OPERATING RANGE DC



Other coil voltages on request.

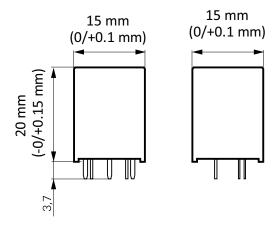
INSULATION DATA

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

OTHER DATA

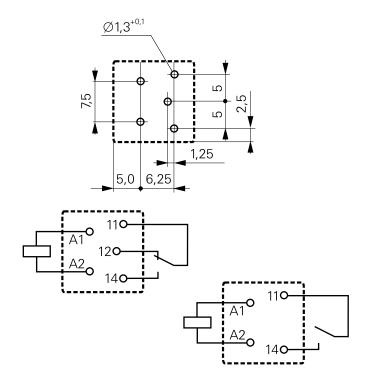
Material compliance	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/ rohssupportcenter			
Resistance to heat and fire version PB1, PB5	according EN60335, par.30			
Ambient temperature, DC coil	-20 to +105°C			
Category of environmental protection				
IEC 61810	RTII - flux proof			
Vibration resistance (functional),				
form A/form B, 30 to 400 Hz	> 10/4 g			
Shock resistance (destructive)	> 100 g			
Terminal type	PCB-THT			
Weight	5.4 g			
Resistance to soldering heat THT				
IEC 60068-2-20	270 °C/ 10 s			
Packaging/unit	tube/35 pcs., box/1050 pcs.			

DIMENSIONS (Unit: mm)



PCB LAYOUT²⁾/ TERMINAL ASSIGNMENT

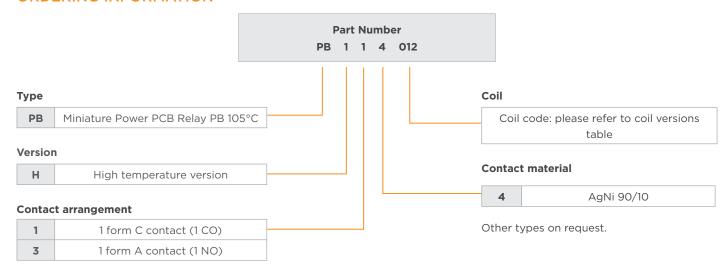
Bottom view on solder pins



2) 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.

ORDERING INFORMATION



PRODUCT INFORMATION

Product code	Version	Contact configuration	Contact material	Coil	Part Number
PBH14005			AgNi 90/10	5 VDC	9-1415356-1
PBH14006				6 VDC	8-1415356-1
PBH14009				9 VDC	7-1415356-1
PBH14012		1 form C 1 CO contact		12 VDC	6-1415356-1
PBH14018				18 VDC	6-1415357-1
PBH14022				22 VDC	7-1415357-1
PBH14024				24 VDC	6-1415355-1
PBH14036	High towns wet we consider			36 VDC	9-1415355-1
PBH34005	High temperature version			5 VDC	5-1415356-1
PBH34006	34006			6 VDC	4-1415356-1
PBH34009		1 form A 1 NO contact		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	1415356-1

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