F0224-Δ



Miniature Power PCB Relay PB

- 1pole 10 A, 1 CO or 1 NO contact
- Environmentally-friendly cadmium-free contacts
- Class F coil system standard
- Compact and simple design gives high process security
- Product in accordance to IEC60335-1
- RoHS compliant (Directive 2002/95/EC) as per product date code 0346



Applications

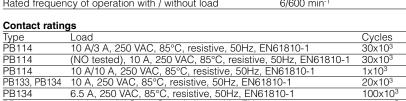
PB634

Coil data

White goods, small home appliances, heating temperature controllers

Approvals VDE REG.-Nr. 121560, C TUS E214025 Technical data of approved types on request

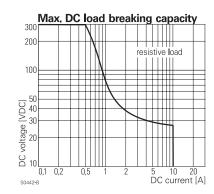
Contact data	
Contact configuration	1 CO or 1 NO contact
Contact set	single contact
Type of interruption	micro-disconnection
Rated current	10 A
Rated voltage / max.switching voltage AC	250/400 VAC
Maximum breaking capacity AC	2500 VA
Limiting making capacity, max 4 s, duty factor 10%	15 A
Contact material	AgNi 90/10, AgSnO ₂
Mechanical endurance	5x10 ⁶ cycles
Rated frequency of operation with / without load	6/600 min ⁻¹

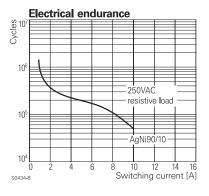


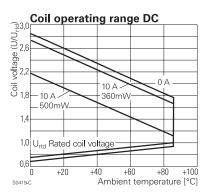
PB1..

10 A, 250 VAC, 85°C, resistive, 50Hz, EN61810-1

Rated coil voltage range DC coil			548	VDC 52	524 VDC		
Coil power DC coil			typ. 360	0 mW typ. 5	500 mW		
Operative range				2			
Coil versions, DC-coil							
Coil	Rated	Operate	Release	Coil	Rated coil		
code	voltage	voltage	voltage	resistance	power		
	VDČ	VDČ	VDČ	Ohm	mW		
Coil vers	ions, DC-coil,	360mW					
005	5	3.75	0.5	70±10%	357		
006	6	4.5	0.6	100±10%	360		
009	9	6.75	0.9	225±10%	360		
012	12	9.0	1.2	400±10%	360		
018	18	13.5	1.8	900±10%	360		
022	22	16.5	2.2	1344±10%	360		
024	24	18.0	2.4	1600±10%	360		
048	48	36	4.8	6400±10%	360		
Coil vers	ions, DC-coil,	500mW					
005	5	3. 75	0.5	48±10%	521		
006	6	4.5	0.6	69±10%	522		
012	12	9	1.2	274±10%	526		
024	24	18	2.4	1097±10%	525		
All figures are given for coil without preenergization, at ambient temperature +23°C							







Datasheet Rev. HC1 www.schrackrelays.com

Other coil voltages on request

Dimensions are in mm unless otherwise specified and are shown for reference purposes only.

Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

processing information only to be used together with the 'Definitions' at schrackrelays.com in the

100x10³

PB5..., PB6..

'Schrack' section.

Specifications subject to change.

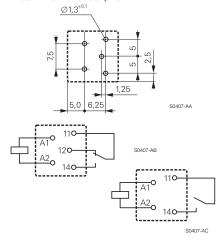


Miniature Power PCB Relay PB (Continued)

1 1.1		
Insulation		
Dielectric strength coil-contact circuit	2500 V _{rms}	
open contact circuit	1000 V _{rms}	
Clearance / creepage coil-contact circuit CO version	≥ 3/4 mm	
NO version	≥ 4/5 mm	
Material group of insulation parts	Illa	
Tracking index of relay base	CTI 250	
Insulation to IEC 60664-1		
Type of insulation coil-contact circuit	basic	
open contact circuit	functional	
Rated insulation voltage	250 V	
Pollution degree	3	
Rated voltage system	230/400 V	
Overvoltage category	III	

Other data	PB1, PB6	PB5
RoHS - Directive 2002/95/EC	compliant as per pro	oduct date code 0346
Flammability class according to UL94		/-0
For version PB1, PB5: GWFI to IEC 60695-2-12		50°C
GWIT to IEC 60695-2-13	3 ≥ 7	75°C
Ambient temperature range	-40	.85°C
Operate- / release time	< 2	0 ms
Bounce time NO / NC contact		5 ms
Vibration resistance (function) NO / NC contact	t >10/4g	>10/8g
	30400Hz	30400Hz
Shock resistance (destruction)	10	00 g
Category of protection	RTII - fl	lux proof
Mounting		cb
Resistance to soldering heat	270°(C / 10s
Relay weight	5.	4 g
Packaging unit	35/10	50 pcs

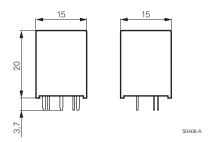
PCB layout 1) / terminal assignment Bottom view on solder pins



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.

Dimensions



'Schrack' section.

General Purpose Relays

Miniature Power PCB Relay PB (Continued)

Produc	et k	еу		РВ	
Туре					
Version	1 5	standard version 500 mW version	6	high performance version (NO version only)	
Contac	t co	onfiguration			
	1	1 CO contact	3	1 NO contact	
Contac	t m	aterial			
	3	AgSnO ₂	4	AgNi 90/10	
Coil					
	Со	il code: please refer to coil versions table			

Other types on request

Product key	Version	Contacts	Contact material	Coil	Part number
PB114005	standard	1 CO contact	AgNi 90/10	5 VDC	6-1415029-1
PB114006	class F			6 VDC	7-1415029-1
PB114012				12 VDC	8-1415029-1
PB114024				24 VDC	9-1415029-1
PB134005		1 NO contact		5 VDC	0-1415030-1
PB134006				6 VDC	1-1415030-1
PB134012				12 VDC	2-1415030-1
PB134024				24 VDC	3-1415030-1
PB514012	500 mW	1 CO contact		12 VDC	2-1415538-5
PB514024	version			24 VDC	5-1415535-6
PB634005	high	1 NO contact		5 VDC	3-1415541-8
PB634006	performance			6 VDC	3-1415541-9
PB634012	version			12 VDC	4-1415541-1
PB634024				24 VDC	4-1415541-2

'Schrack' section.

SCHRACK