

Electronics

SCHRACK

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
- Versions PB1 and PB5: Product in accordance to IEC60335-1 (PB3 on request)
- RoHS compliant (Directive 2002/95/EC) as per product date code 0346



F0224-A

Applications

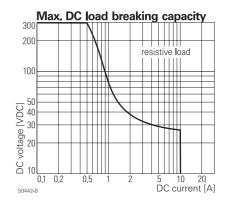
White goods, small home appliances, heating temperature controllers

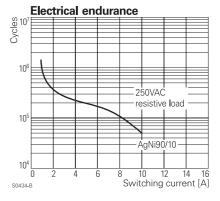
| Approvals |
|---|
| REGNr. 121560, c % us E214025 |
| Technical data of approved types on request |

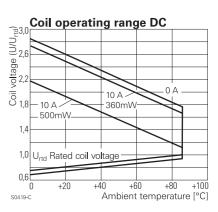
| Contact data | | | | |
|--|--------------------------------|--|--|--|
| Contact configuration | 1 CO or 1 NO contact | | | |
| Contact set | single contact | | | |
| Type of interruption | micro-disconnection | | | |
| Rated current | 10 A | | | |
| Rated voltage / max.switching voltage AC | 240/400 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 | | | |

| Rated frequ | ency of operation with / without load | 6/600 min ⁻¹ | |
|-------------|---|-------------------------|---------------------|
| | | | |
| Contact rat | ings | | |
| Туре | Load | | Cycles |
| AgNi NO | 10 A, 250 VAC, 85°C, resistive, 50Hz, EN61810 | | 20x10 ³ |
| AgSnO NO | 10 A, 250 VAC, 85°C, resistive, 50Hz, EN61810 | | 40x10 ³ |
| AgNi NO | 6 A, 250 VAC, 85°C, resistive, 50Hz, EN61810 | | 100x10 ³ |
| AgNi CO | 10 A/3 A, 250 VAC, 85°C, resistive, 50Hz, EN618 | 10 | 30x10 ³ |
| AgNi CO | (NO tested), 10 A, 250 VAC, 85°C, resistive, 50Hz | z, EN61810 | 30x10 ³ |
| AgNi CO | 10 A/10 A, 250 VAC, 85°C, resistive, 50Hz, EN618 | 310 | 1x10 ³ |
| | | | |

| Coil data | | | PB standard PB 500 mW | | |
|----------------------------------|-----------------|-----------------------|-----------------------|-------------------|------------|
| Rated coil voltage range DC coil | | | 548 | VDC 5 | 24 VDC |
| Coil power DC coil | | typ. 36 | 60 mW typ | typ. 500 mW | |
| Operative range | | | | 2 | |
| Non-relea | ase voltage, % | of rated coil voltage | 9 | 50% | |
| Coil vers | ions, 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 | s are given for | coil without preener | gization, at a | mbient temperatur | e +23°C |







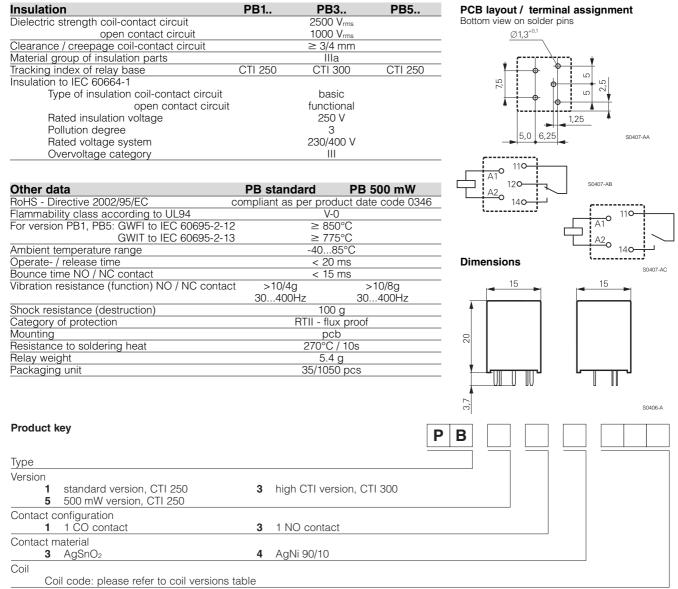
Other coil voltages on request





Electronics

Miniature Power PCB Relay PB (Continued)



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 | CTI 250/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 |
| PB314005 | high CTI version | 1 CO contact | | 5 VDC | 4-1415030-1 |
| PB314006 | CTI 300 | | | 6 VDC | 5-1415030-1 |
| PB314012 | | | | 12 VDC | 6-1415030-1 |
| PB314024 | | | | 24 VDC | 7-1415030-1 |
| PB334005 | | 1 NO contact | | 5 VDC | 8-1415030-1 |
| PB334006 | | | | 6 VDC | 9-1415030-1 |
| PB334012 | | | | 12 VDC | 0-1415031-1 |
| PB334024 | | | | 24 VDC | 1-1415031-1 |