# DC operated slim type card relays

Rated thermal currrent 5 Amps.

### Description

The RB104 and 105 relays are designed for printed circuit board use. These relays are extremely thin (5mm) and so, can be densely mounted on PC boards. As a result, PC board size and cost can be greatly reduced. Employing of bifurcated contacts ensure high contact reliability, allowing the RB104,105 relays to be used in lowlevel circuits. Coil voltages are available in ranges from 4.5V to 24V DC.

Power

120mW

200mW

consumption

### Types and ratings Ordering

code

RB104-

RB105-

Type

**RB104** 

**RB105** 

### Features

- Thin, miniature size and light weight The mounting space on the PC board can be reduced.
- UL, CSA and TÜV approved
- Low power consumption They can be operated by means of non-polarity magnet.
- SIL terminal arrangement SIL (Single-side In-Line lead) package allows the relays to be mounted easily on PC board.

Thermal

current

5A

Make and

(res.load)

break current

5A at 250V AC

5A at 30V DC

- Fluxtight construction
- Immersion cleanable

Pick-up

voltage

70% of rated

voltage or less



### Ordering information

- Specify the following:
- 1. Type number

### Type number nomenenclature RB 10 4-DE



**Resistive** load

Inductive load

2A<sup>·</sup> (15ms)

0.2A (15ms)

1A

UL, CSA and TÜV UL file No. E44592 CSA file No. LR20479 TÜV license No. R9551729

0.5A

## Specifications

Operating time Release time Dielectric strength Stray electrostatic capacity Impulse Insulation resistance		<ul> <li>10ms or less at rated voltage</li> <li>5ms or less at rated voltage</li> <li>750V AC rms. 1 min. between open contacts</li> <li>2,000V AC rms. 1 min. between contact and coil</li> <li>Approx. 1.4pF between contact and coil</li> <li>4,500V or more 1.2 × 50µs between contact and coil</li> <li>100MΩ at 500V DC megger</li> </ul>	<ul> <li>Approvals</li> <li>UL, CSA at UL file No. CSA file No. TUV licens</li> <li>Ratings</li> </ul>	
			Electrical durability	AC
	130,000 operations at 220V AC 3A, resistive load	240V AC		5A
DC	150,000 operations at 24V DC 1A, inductive load	30V DC		5A
		100,000 operations at 24V DC 5A, resistive load	120V DC	0.5
Mechanical durability		20 million operations		
Ambient temperature		-40°C to +70°C(no icing)		

Rated

voltage

4.5, 5, 6

24V DC

9, 12

Note: Enter the coil voltage code in the ■ mark as follow 4.5V DC: DC, 5V DC: DY, 6V DC: DA, 9V DC: DD, 12V DC: DB, 24V DC: DE

# Dimensions, mm

### RB104,105



Mass: 3g

PC board drilling (View from back side)



### Internal wiring diagram

### Socket TP04



PC board drilling (View from back side)



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