

# Power PCB Relay RTH 105°C sensitive

1 pole 10 A, high-temperature version



- 1 N/O contact
- Sensitive coil 250 mW
- 5 kV / 10 mm coil-contact
- Protection class II (VDE 0700)
- Ambient temperature 105°C at rated load
- Height 15.7 mm

Applications  
Domestic appliances, heating control

F0179-B



Technical data of approved types on request

### Contact data

Configuration	1 N/O contact
Type of contact	single contact
Rated current	10 A
Rated voltage / max.breaking voltage AC	250 Vac / 440 Vac
Maximum breaking capacity AC	2500 VA
Make current (max. 4 s at duty cycle 10%)	15 A
Contact material	AgNi 90/10

### Contact life

Type	Load	Operations
RTH84	12 A, 250 Vac, 105 °C, dry switching	>5x10 <sup>5</sup>
RTH84	10 A, 250 Vac, cyclical heat 105/40 °C	2x10 <sup>5</sup>
RTH84	10 A, 250 Vac, 105 °C	1.5x10 <sup>5</sup>

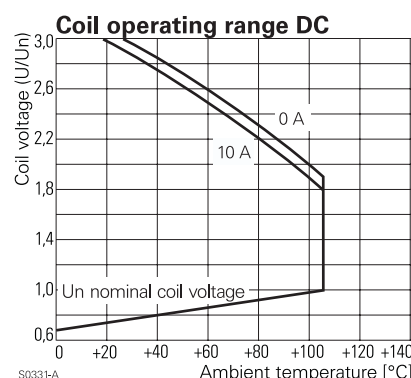
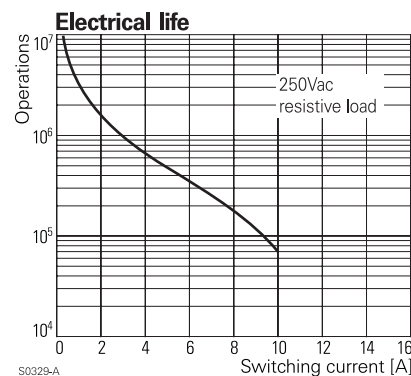
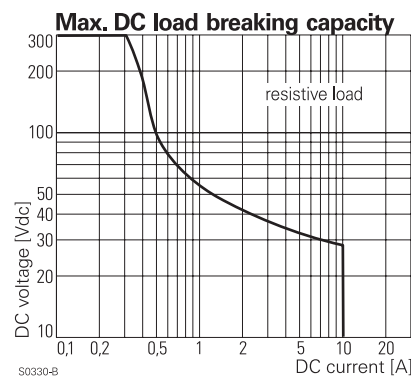
### Coil data

Nominal voltage	5...60 Vdc
Nominal coil power	250 mW
Operate category	2 / b

### Coil versions, sensitive DC-coil

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
012	12	9.0	1.2	36.0	576±10%	20.8
024	24	18.0	2.4	72.0	2304±10%	10.4

All figures are given for coil without preenergization, at ambient temperature +20°C  
Other coil voltages on request



# Power PCB Relay RTH 105°C sensitive

1 pole 10 A, high-temperature version

## Insulation

Dielectric strength	coil-contacts	5000 V <sub>rms</sub>
	open contact circuit	1000 V <sub>rms</sub>
Clearance / creepage		10 / 10 mm
Insulation to IEC 664/VDE 0110 (1/89)		
	Voltage rating	250 V
	Pollution degree	3
	Overvoltage category	III
Insulation to VDE 0110b (2/79)		
	Insulation category / reference voltage	C / 250

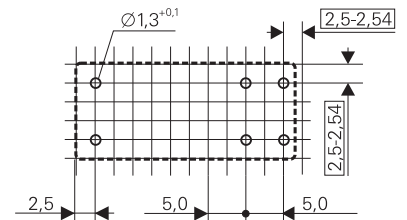
## Other data

Flammability class UL	V-0
Ambient temperature	-40...+105 °C
Mechanical life	10x10 <sup>6</sup> operations
Max. switching rate at rated- / minimum load	6 min <sup>-1</sup> / 1200 min <sup>-1</sup>
Operate- / release time	typ. 8 / 3 ms
Bounce time	typ. 2 ms
Vibration resistance	5 g, 30...150 Hz
Shock resistance (destruction)	100 g
Protection category	IP 40
Relay weight	14 g
Packaging unit	20 / 500 pcs.

## PCB layout / terminal assignment

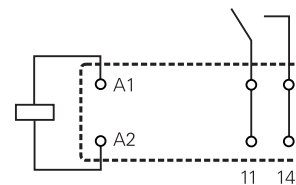
View on solder pins  
Dimensions in mm

10 A, pinning 5 mm



S0163-CT

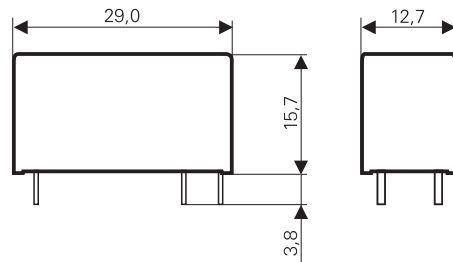
1 N/O contact



S0163-BF

## Dimensions

Dimensions in mm



S0272-AE

## Ordering key

Type	<b>R T</b>	<b>H</b>	<b>8</b>	<b>4</b>		
Version	<b>H</b> 10 A, pinning 5 mm, 105°C					
Contacts	<b>8</b> 1 N/O contact					
Contact material	<b>4</b> AgNi 90/10					
Coil	Coil code: please refer to coil versions table					

Rights to change data / design reserved