

Power PCB Relay RT1 (Continued)

Insulation Data

Initial dielectric strength	
between open contacts	1000V _{rms}
between contact and coil	5000V _{rms}
Clearance/creepage	
between contact and coil	≥10/10mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI 250V

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

Ambient temperature	
DC coil	-40 to 85°C
Category of environmental protection, IEC 61810	
standard version	RTII - flux proof, RTIII - wash tight
Vibration resistance (functional)	
form A/form B contact, 30 to 500Hz	20g/5g
Shock resistance (destructive)	100g

Other Data (continued)

Terminal type	
standard version	PCB-THT, plug-in
Weight	14g
Resistance to soldering heat	THT, IEC 60068-2-20
RTII	270°C/10s
RTIII	260°C/5s
Packaging/unit	tube/20 pcs., box/500 pcs.

Accessories

For details see datasheet [Accessories Industrial Power Relay RT](#)

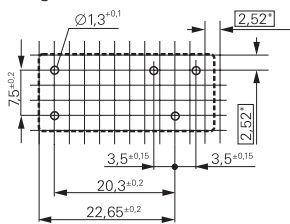
NOTE: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

PCB layout / terminal assignment

Bottom view on solder pins

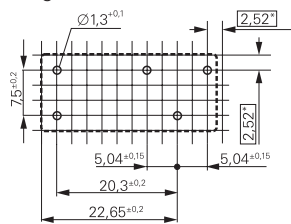
*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.

12A, pinning 3.5mm



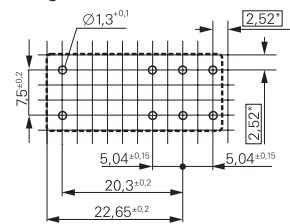
S0418-CB

12A, pinning 5mm



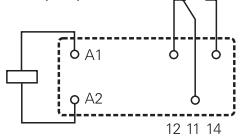
S0418-CN

16A, pinning 5mm



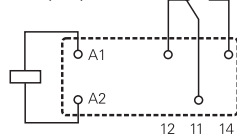
S0418-CA

1 form C (CO) contact



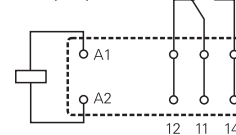
S0163-BG

1 form C (CO) contact



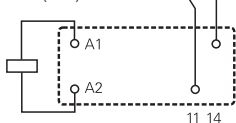
S0163-BC

1 form C (CO) contact



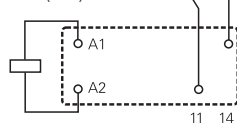
S0163-BE

1 form A (NO) contact



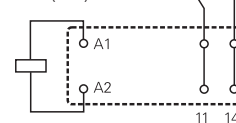
S0163-BH

1 form A (NO) contact



S0163-BD

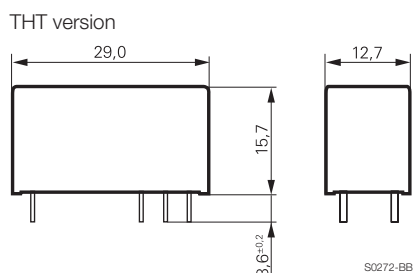
1 form A (NO) contact



S0163-BF

Power PCB Relay RT1 (Continued)

Dimensions



Product code structure

Typical product code

RT 3 1 4 024

Type

RT Power PCB Relay RT1

Version

- 1** 12A, pinning 3.5mm, flux proof
- 2** 12A, pinning 5mm, flux proof *)
- 3** 16A, pinning 5mm, flux proof
- B** 12A, pinning 3.5mm, wash tight
- D** 16A, pinning 5mm, wash tight

Contact arrangement

- 1** 1 form C (CO) contact
- 3** 1 form A (NO) contact

Contact material

- 4** AgNi 90/10

Coil

Coil code: please refer to coil versions table

Version

- F** Standard version

*) Wash tight version on request

Product code	Version	Contacts	Contact material	Coil	Part number
RT114012F	12A, pinning 3.5mm, flux proof	1 form C (CO) contact	AgNi 90/10	12VDC	1419108-2
RT114024F				24VDC	1419108-3
RT134012F		1 form A (NO) contact		12VDC	5-1415020-1
RT134024F				24VDC	2-1393242-1
RT314005F	16A, pinning 5mm, flux proof	1 form C (CO) contact		5VDC	1419108-8
RT314012F				12VDC	2-1393237-2
RT314024F				24VDC	2-1393237-3
RT334012F		1 form A (NO) contact		12VDC	2-1393237-5
RT334024F				24VDC	2-1393237-7
RTB14005F	12A, pinning 3.5mm, wash tight	1 form C (CO) contact		5VDC	2-1419108-4
RTB14012F				12VDC	2-1419108-5
RTB14024F				24VDC	2-1419108-6
RTB34012F		1 form A (NO) contact		12VDC	2-1419108-7
RTD14005F	16A, pinning 5mm, wash tight	1 form C (CO) contact		5VDC	2-1419108-8
RTD14012F				12VDC	2-1419108-9
RTD14024F				24VDC	3-1419108-1
RTD34012F		1 form A (NO) contact		12VDC	3-1419108-6
RTD34024F				24VDC	3-1419108-9

This list represents the most common types and does not show all variants covered by this datasheet.
Other types on request