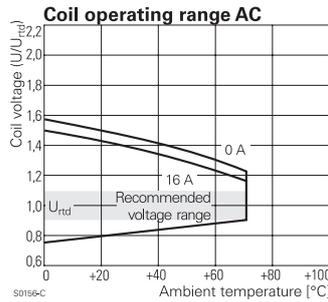
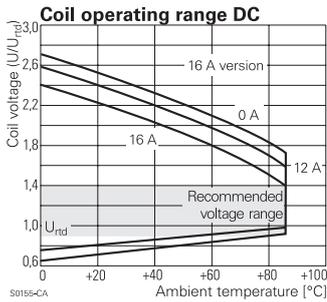


Power PCB Relay RT1 (Continued)



Other coil voltages on request.

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
reflow version	PTI 175V

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

Resistance to heat and fire	
WG version or Reflow version	according EN60335, par30
Ambient temperature	
DC coil	-40 to 85°C
AC coil	-40 to 70°C
Category of environmental protection, IEC 61810	
standard version	RTII - flux proof, RTIII - wash tight
reflow version	RTII - flux proof
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
reflow version	PCB-THR
Mounting distance	AC coil: ≥2.5mm
Weight	14g
Resistance to soldering heat	THT, IEC 60068-2-20
RTII	270°C/10s
RTIII	260°C/5s
Resistance to soldering heat	THR
reflow soldering (for reflow version)	forced gas convection ⁴⁾ or vapour phase ⁵⁾
temperature profile	according EN61730
Packaging/unit	tube/20 pcs., box/500 pcs.
4) infrared heating not allowed	
5) recommended fluid LS/230	

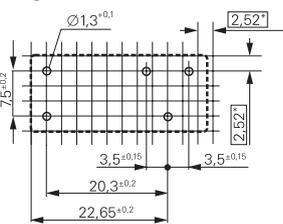
Accessories

For details see datasheet [Accessories Industrial Power Relay RT1](#)
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

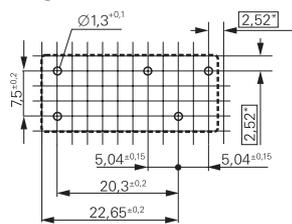
Bottom view on solder pins

12A, pinning 3.5mm



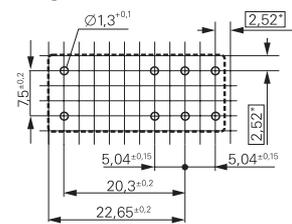
S0418-CB

12A, pinning 5mm



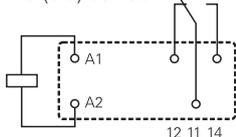
S0418-CN

16A, pinning 5mm



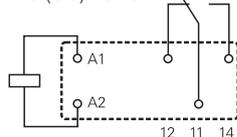
S0418-CA

1 form C (CO) contact



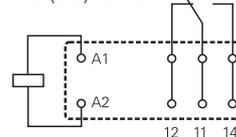
S0163-BG

1 form C (CO) contact



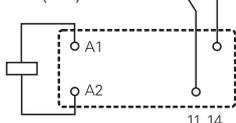
S0163-BC

1 form C (CO) contact



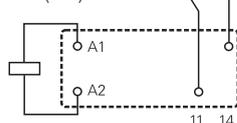
S0163-BE

1 form A (NO) contact



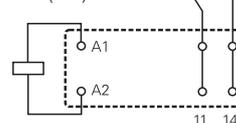
S0163-BH

1 form A (NO) contact



S0163-BD

1 form A (NO) contact

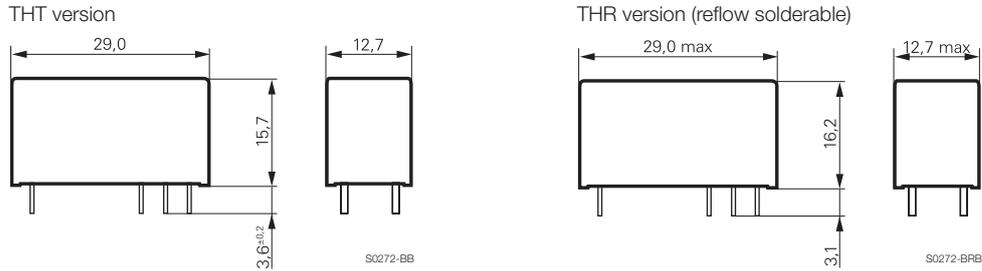


S0163-BF

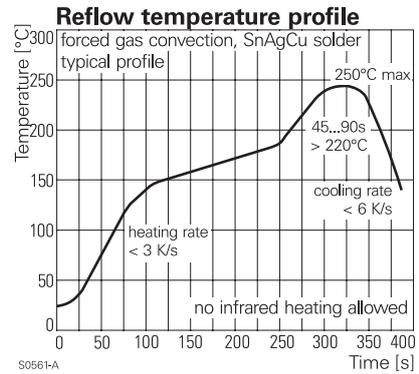
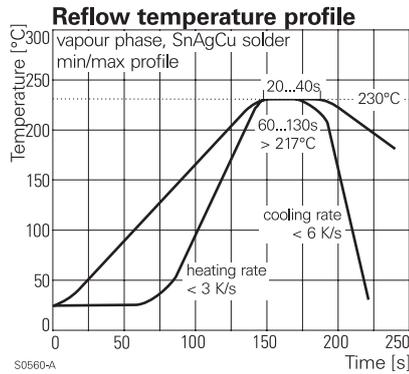
*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.

Power PCB Relay RT1 (Continued)

Dimensions



Process conditions for Reflow soldering
according to EN61760-1



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
- C** 12A, pinning 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
- 5** AgNi 90/10 gold plated (for type RT31.)

Coil

Coil code: please refer to coil versions table

Version

- Blank** Standard version
- WG** Product in accordance with IEC 60335-1 (domestic appliances)
- R** Reflow solderable

Power PCB Relay RT1 (Continued)

Product code	Version	Contacts	Contact material	Coil	Version	Part number
RT114009	12A,	1 form C (CO)	AgNi 90/10	9VDC	Standard	1393239-9
RT114012	pinning 3.5mm,	1 form C (CO)		12VDC		1419108-1
RT114012WVG	flux proof	1 form C (CO)		12VDC	IEC60335-1 compliant	7-1415538-6
RT114024		1 form C (CO)		24VDC	Standard	1-1393239-3
RT114024WVG		1 form C (CO)		24VDC	IEC60335-1 compliant	1415539-4
RT114730		1 form C (CO)		230VAC	Standard	1-1393239-9
RT115024		1 form C (CO)	AgNi 90/10 gold pl.	24VDC		2-1393239-1
RT134012		1 form A (NO)	AgNi 90/10	12VDC		2-1393239-6
RT134024		1 form A (NO)		24VDC		3-1393239-0
RT214012	12A,	1 form C (CO)		12VDC		5-1393239-4
RT214024	pinning 5mm,	1 form C (CO)		24VDC		5-1393239-5
RT214524	flux proof	1 form C (CO)		24VAC		5-1393239-9
RT214730		1 form C (CO)		230VAC		1419108-6
RT314005	16A,	1 form C (CO)		5VDC		9-1393239-1
RT314006	pinning 5mm,	1 form C (CO)		6VDC		9-1393239-3
RT314009	flux proof	1 form C (CO)		9VDC		9-1393239-4
RT314012		1 form C (CO)		12VDC		9-1393239-5
RT314012R		1 form C (CO)		12VDC	Reflow solderable	4-1415543-6
RT314012WVG		1 form C (CO)		12VDC	IEC60335-1 compliant	8-1415535-6
RT314018		1 form C (CO)		18VDC	Standard	9-1393239-7
RT314024		1 form C (CO)		24VDC		9-1393239-8
RT314024WVG		1 form C (CO)		24VDC	IEC60335-1 compliant	1415538-7
RT314048		1 form C (CO)		48VDC	Standard	1393240-1
RT314060		1 form C (CO)		60VDC		1-1649328-7
RT314110		1 form C (CO)		110VDC		1393240-3
RT314524		1 form C (CO)		24VAC		1393240-4
RT314548		1 form C (CO)		48VAC		1393240-5
RT314615		1 form C (CO)		115VAC		1393240-6
RT314730		1 form C (CO)		230VAC		1393240-7
RT314730WVG		1 form C (CO)		230VAC	IEC60335-1 compliant	4-1415538-0
RT315024		1 form C (CO)	AgNi 90/10 gold pl.	24VDC	Standard	1-1393240-4
RT334009WVG		1 form A (NO)	AgNi 90/10	9VDC	IEC60335-1 compliant	3-1415538-1
RT334012		1 form A (NO)		12VDC	Standard	4-1393240-5
RT334012WVG		1 form A (NO)		12VDC	IEC60335-1 compliant	1-1415527-1
RT334024		1 form A (NO)		24VDC	Standard	4-1393240-8
RT334048		1 form A (NO)		48VDC		5-1393240-0
RTB14005	12A,	1 form C (CO)		5VDC		1-1393238-2
RTB14012	pinning 3.5mm,	1 form C (CO)		12VDC		1-1393238-5
RTB14024	wash tight	1 form C (CO)		24VDC		1-1393238-9
RTB14524		1 form C (CO)		24VAC		2-1393238-4
RTB34012		1 form A (NO)		12VDC		3-1393238-0
RTC14024	12A, 5mm, wash tight	1 form C (CO)		24VDC		5-1393238-0
RTD14005	16A,	1 form C (CO)		5VDC		5-1393238-9
RTD14012	pinning 5mm,	1 form C (CO)		12VDC		6-1393238-2
RTD14024	wash tight	1 form C (CO)		24VDC		6-1393238-8
RTD14048		1 form C (CO)		48VDC		6-1393238-9

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