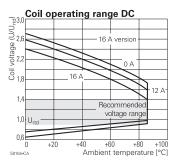
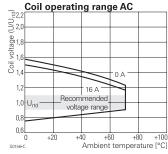


Power PCB Relay RT1 (Continued)





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	Illa	
Tracking index of relay base	PTI 250V	
reflow version	PTI 175V	
between contact and coil Material group of insulation parts Tracking index of relay base	IIIa 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

Resistance to heat and fire

according EN60335, par30 WG version or Reflow version

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 PCB-THR reflow version AC coil: ≥2.5mm Mounting distance Weight

Resistance to soldering heat THT, IEC 60068-2-20

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)

according EN61730 temperature profile Packaging/unit tube/20 pcs., box/500 pcs.

4) infrared heating not allowed 5) recommended fluid LS/230

deratings may apply.

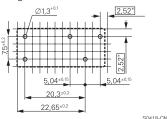
Accessories

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

PCB layout / terminal assignment

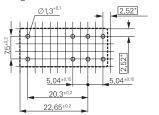
Bottom view on solder pins

12A, pinning 3.5mm 20,3±0,2 22,65±0,2 12A, pinning 5mm

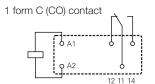


*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.

16A, pinning 5mm

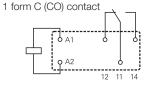


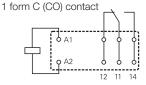
S0418-CA





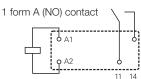
S0418-CR







1 form A (NO) contact 6 A1



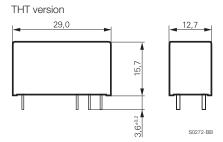
1 form A (NO) contact

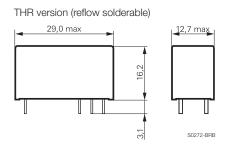
S0163-BC



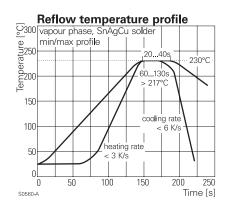
Power PCB Relay RT1 (Continued)

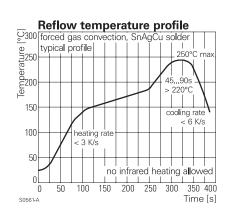
Dimensions





Process conditions for Reflow soldering according to EN61760-1





Product code structure Typical product code RT 3 4 024 Type RT Power PCB Relay RT1 Version 12A, pinning 3.5mm, flux proof 12A, pinning 5mm, flux proof 16A, pinning 5mm, flux proof 12A, pinning 3.5mm, wash tight 12A, pinning 5mm, wash tight 16A, pinning 5mm, wash tight D **Contact arrangement** 1 1 form C (CO) contact 3 1 form A (NO) contact **Contact material** 4 AgNi 90/10 AgNi 90/10 gold plated (for type RT31.) Coil Coil code: please refer to coil versions table Version **Blank** Standard version Product in accordance with IEC 60335-1 (domestic appliances) WG

http://relays.te.com/definitions

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
RT114012WG	flux proof	1 form C (CO)		12VDC	IEC60335-1 compliant	7-1415538-6
RT114024		1 form C (CO)		24VDC	Standard	1-1393239-3
RT114024WG		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	Staridard	2-1393239-1
RT134012		1 form A (NO)	AgNi 90/10	12VDC	-	2-1393239-6
RT134024		1 form A (NO)	Agi (150/10	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
	flux proof		-	24VDC 24VAC	-	5-1393239-9
RT214524	ilux prooi	1 form C (CO)	_			
RT214730	101	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
RT314012WG		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
RT314024WG		1 form C (CO)	1	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	i i	1393240-6
RT314730		1 form C (CO)		230VAC	1	1393240-7
RT314730WG		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
RT334009WG		1 form A (NO)	AgNi 90/10	9VDC	IEC60335-1 compliant	3-1415538-1
RT334012		1 form A (NO)		12VDC	Standard	4-1393240-5
RT334012WG		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	Gtaridard	5-1393240-0
RTB14005	12A,	1 form C (CO)		5VDC	-	1-1393238-2
RTB14003			-	12VDC	-	
	pinning 3.5mm,	1 form C (CO)		24VDC	-	1-1393238-5 1-1393238-9
RTB14024	wash tight	1 form C (CO)	-		-	
RTB14524		1 form C (CO)		24VAC	-	2-1393238-4
RTB34012	104.5	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