

Power PCB Relay RT2 DC and AC (for global markets) (Continued)

Insulation Data

Initial dielectric strength	
between open contacts	1000V _{rms}
between contact and coil	5000V _{rms}
between adjacent contacts	2500V _{rms}
Clearance/creepage	
between contact and coil	≥10/10mm
between adjacent contacts	≥3/4mm
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
AgSnO ₂ contacts	-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 300Hz	20g/5g
Shock resistance (destructive)	100g

Other Data (continued)

Terminal type	PCB-THT, plug-in
reflow version	PCB-THR
Mounting distance, AC coil	≥2.5mm
Weight	13g
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/20pcs., box/500pcs.

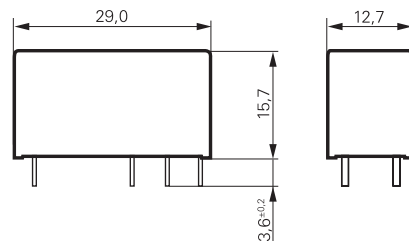
4) infrared heating not allowed.
5) recommended fluid LS/230.

Accessories

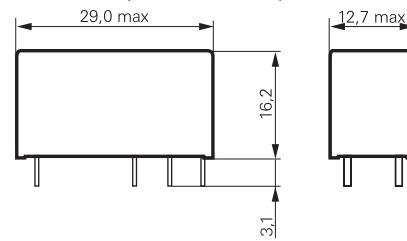
For details see datasheet [Accessories Industrial Power Relay RT](#)
NOTE: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

Dimensions

THT version

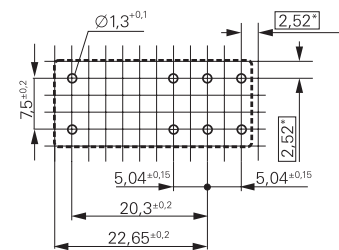


THR version (reflow solderable)



PCB layout / terminal assignment

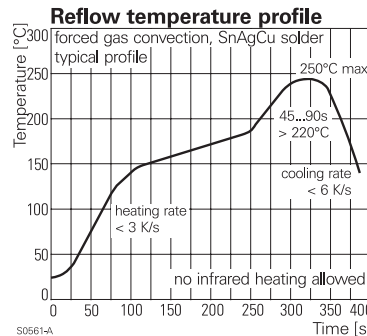
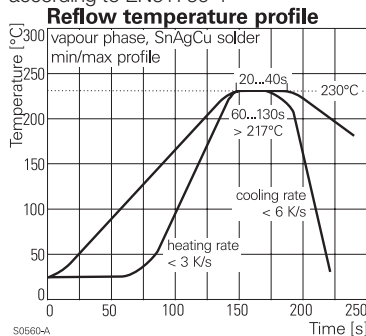
Bottom view on solder pins



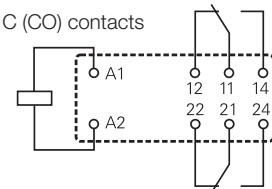
*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.

Process conditions for Reflow soldering

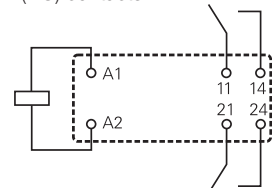
according to EN61760-1



2 form C (CO) contacts



2 form A (NO) contacts



Power PCB Relay RT2 DC and AC (for global markets) (Continued)

Product code structure		Typical product code				
Type	RT Power PCB Relay RT2	RT	4	2	4	024
Version						
4	8A, pinning 5mm, flux proof					
E	8A, pinning 5mm, wash tight (not for Reflow version)					
Contact arrangement						
2	2 form C (CO) contacts					
4	2 form A (NO) contacts					
Contact material						
3	AgSnO					
4	AgNi 90/10					
5	AgNi 90/10 gold plated					
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					

Product code	Version	Contacts	Contact material	Coil	Version	Part number
RT423730	8A,	2 form C (CO) contacts	AgSnO	230VAC	Standard	4-1393243-3
RT424005	pinning 5mm,		AgNi 90/10	5VDC		5-1393243-9
RT424006	flux proof			6VDC		6-1393243-1
RT424012				12VDC		6-1393243-3
RT424012WG					IEC60335-1 compliant	7-1415538-8
RT424024				24VDC	Standard	6-1393243-8
RT424024WG					IEC60335-1 compliant	7-1415538-7
RT424048				48VDC	Standard	7-1393243-0
RT424060				60VDC		7-1393243-3
RT424110				110VDC		7-1393243-5
RT424524				24VAC		7-1393243-6
RT424615				115VAC		7-1393243-8
RT424730				230VAC		7-1393243-9
RT425003			AgNi 90/10	3VDC		7-1415525-1
RT425005			gold plated	5VDC		8-1393243-0
RT425012				12VDC		8-1393243-2
RT425024				24VDC		8-1393243-5
RT444012		2 form A (NO) contacts	AgNi 90/10	12VDC		9-1393243-7
RT444024				24VDC		9-1393243-9
RTE24005	8A,	2 form C (CO) contacts		5VDC		1393243-1
RTE24006	pinning 5mm,			6VDC		1393243-2
RTE24012	wash tight			12VDC		1393243-4
RTE24024				24VDC		1-1393243-0
RTE24048				48VDC		1-1393243-1
RTE24110				110VDC		1-1393243-4
RTE24524				24VAC		1-1393243-5
RTE24615				115VAC		1-1393243-7
RTE24730				230VAC		1-1393243-8
RTE25005			AgNi 90/10	5VDC		1-1393243-9
RTE25012			gold plated	12VDC		2-1393243-0
RTE25024				24VDC		2-1393243-1
RTE25524						2-1393243-4
RTE43009		2 form A (NO) contacts	AgSnO	9VDC		4-1415535-1
RTE44009			AgNi 90/10			3-1393243-1
RTE44730				230VAC		3-1393243-5

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

