

Power PCB Relay RT1 bifurcated (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/customer-support/rohssupportcenter

Ambient temperature, DC coil	-40 to 85°C
Category of environmental protection, IEC 61810	
12A version	RTIII - wash tight
16A version	RTII - flux proof
Vibration resistance (functional), form A/form B contact, 30 to 500Hz	
12A version	15/3g
16A version	15/4g
Shock resistance (destructive)	100g

Other data (continued)

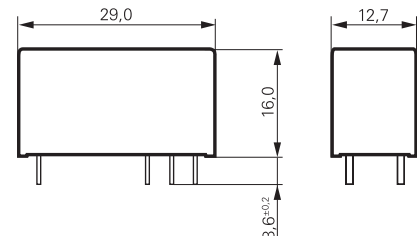
Terminal type	PCB-THT, plug-in
Mounting distance	≥5mm
Weight	14g
Resistance to soldering heat THT, IEC 60068-2-20	
RTII	270°C/10s
RTIII	260°C/5s
Packaging/unit	tube/20 pcs., box/500 pcs.

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.

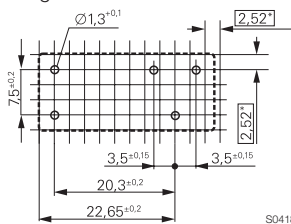
Dimensions



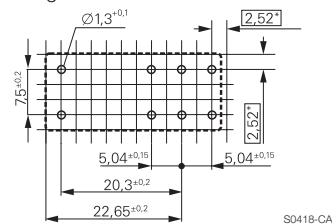
PCB layout / terminal assignment

Bottom view on solder pins

12A, pinning 3.5mm

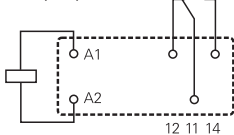


16A, pinning 5mm



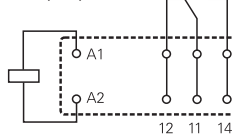
*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.

1 form C (CO) contact



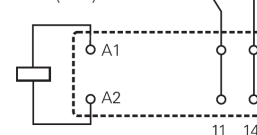
S0163-BG

1 form C (CO) contact



S0163-BE

1 form A (NO) contact



S0163-BF

Product code structure

Typical product code **RT B 7 D 012**

Type

RT Power PCB Relay RT1 bifurcated

Version

3 16A, pinning 5mm, flux proof **B** 12A, pinning 3.5mm, wash tight

Configuration

1 1 form C (CO) contact, 16A, 400mW coil **3** 1 form A (NO) contact, 16A, 400mW coil
7 1 form C (CO) contact, 12A, 200mW coil

Contact material

C AgNi 90/10, 16A version **D** AgNi 90/10 gold plated, 12A version

Coil

Coil code: please refer to coil versions table

Version with 1 form A (NO) contact available on request.

Product code	Version	Contacts	Cont. material	Coil	Coil	Part Number
RT33C024	16A, pinning 5mm	1 form A (NO) bif.	AgNi 90/10	400mW	24 VDC	8-1415541-5
RT31C012	flux proof	1 form C (CO)		400mW	12 VDC	1415900-2
RT31C024		bifurcated contact		400mW	24 VDC	1415900-7
RTB7D012	12A, 3.5mm		AgNi 90/10	210mW	12 VDC	1415900-5
RTB7D024	wash tight		gold plated	190mW	24 VDC	1415900-6

Other types on request

This list represents the most common types and does not show all variants covered by this data sheet.