

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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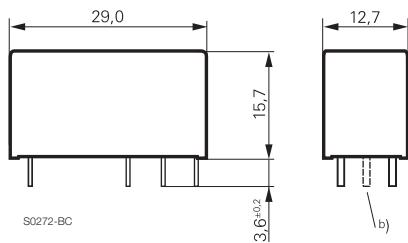


**Power PCB Relay RT1 bistable (Continued)**
**Insulation Data**

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

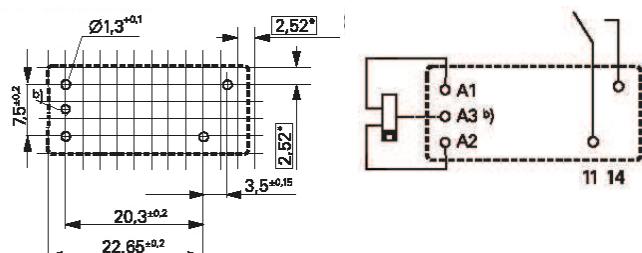
**Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at <a href="http://www.te.com/customersupport/rohssupportcenter">www.te.com/customersupport/rohssupportcenter</a>	
Ambient temperature	-40 to 85°C
Category of environmental protection	
IEC 61810	RTII - flux proof, RTIII - wash tight
Vibration/shock resistance (functional), opening B contact	3/5g
opening closed A contact	6/15g
Shock resistance (destructive)	100g

**Dimensions**


a) Indicated contact position during or after coil energization with reset voltage.

b) for 2 coil version only

**12A, pinning 3,5mm, 1 form A (NO) contact**

**Other Data (continued)**

Terminal type	PCB-THT, plug-in <sup>1)</sup>
Weight	14g
Resistance to soldering heat	THT, IEC 60068-2-20
RTII - flux proof	270°C/10s
RTIII - wash tight	260°C/5s
Packaging/unit	tube/20 pcs., box/500 pcs.

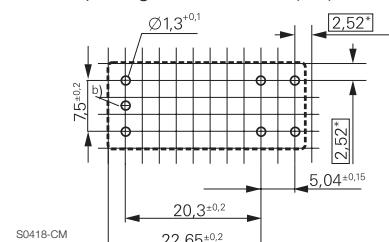
<sup>1)</sup> socket available for 1 coil version only, see Accessories.

**Accessories**

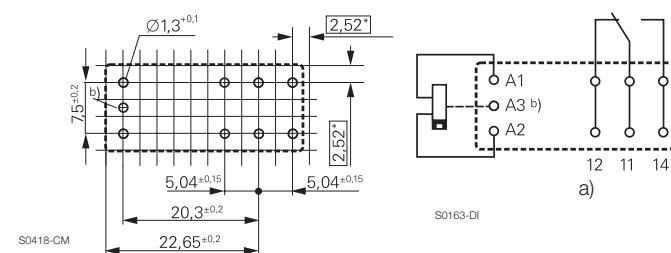
For 1 coil version, details see datasheet	<a href="#">Accessories Industrial Power Relay RT</a>
NOTE: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.	

**PCB layout / terminal assignment**

Bottom view on solder pins

**16A, pinning 5mm, 1 form A (NO) contact**


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

**16A, pinning 5mm, 1 form C (CO) contact**


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

## Power PCB Relay RT1 bistable (Continued)

## Product code structure

 Typical product code **RT** **3** **1** **4** **F24**

<b>Type</b>	<b>RT</b> Power PCB Relay RT1 bistable
<b>Version</b>	<b>1</b> 12A, pinning 3,5mm, flux proof <b>3</b> 16A, pinning 5mm, flux proof <b>D</b> 16A, pinning 5mm, wash tight
<b>Contact configuration</b>	<b>1</b> 1 form C (CO) contact <b>3</b> 1 form A (NO) contact
<b>Contact material</b>	<b>4</b> AgNi 90/10
<b>Coil</b>	Coil code: please refer to coil versions table

Product code	Version	Contacts	Contact material	Coil version	Coil	Part number
RT314A03	16A;	1 form C (CO) contact	AgNi 90/10	Bistable 1coil	3VDC	7-1393239-7
RT314A05	pinning 5mm,				5VDC	7-1393239-8
RT314A06	flux proof				6VDC	7-1393239-9
RT314A12					12VDC	8-1393239-0
RT314F03				Bistable 2 coils	3VDC	8-1393239-4
RT314F05					5VDC	8-1393239-5
RT314F06					6VDC	8-1393239-6
RT314F12					12VDC	8-1393239-7
RT314F24					24VDC	8-1393239-8
RT134F12	12A, pinning 3,5mm, flux proof	1 form A (NO) contact	AgNi 90/10	Bistable 2 coils	12VDC	4-1415382-1

Other types on request.

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