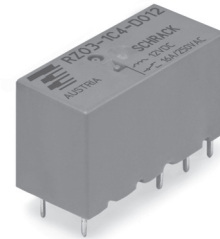


**Power PCB Relay RZ**

- 1 pole 12/16 A, 1 form C (CO) or 1 form A (NO) contact
- DC coil 400 mW
- 5kV/10mm coil-contact, reinforced insulation
- Ambient temperature 85°C (clear cover: 70°C)
- Product in accordance to IEC 60335-1



Typical applications  
Household appliances, boiler control, timers, garage door control, POS automation



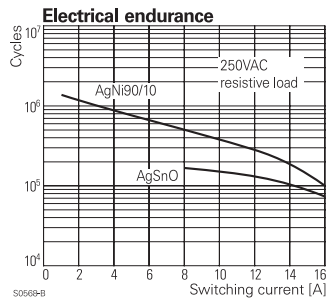
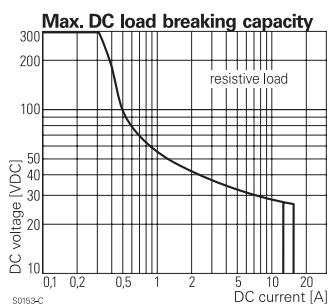
F0305-A

**Approvals**  
VDE REG.-Nr. C693, UL E214025 CQC: CQC12002066685  
Technical data of approved types on request

Contact Data	12A	16A
Contact arrangement	1 form C (CO) or 1 form A (NO)	
Rated voltage	250VAC	
Max. switching voltage	400VAC	
Rated current	12A	16A
Limiting making current (form A contact)		
max. 4s, duty factor 10%	30A	
max. 20ms (incandescent lamp); AgSnO <sub>2</sub>	80A	
Breaking capacity max.	3000VA	4000VA
Contact material	AgNi 90/10 or AgSnO <sub>2</sub>	
Frequency of operation, with/without load	360/72000h <sup>-1</sup>	
Operate/release time max.	8/6ms	
Bounce time max., form A/form B	4/6ms	

Contact ratings			
Type	Contact	Load	Cycles
<b>IEC 61810</b>			
RZ03-1A.	A (NO)	16A, 250VAC, 85°C	50x10 <sup>3</sup>
RZ03-1C4	C (CO)	16A, 250VAC, 85°C	10x10 <sup>3</sup>
RZ01-1A3	A (NO)	12A, 250VAC, 85°C	100x10 <sup>3</sup> 1)
RZ01-1A4	A (NO)	12A, 250VAC, 85°C	50x10 <sup>3</sup>
RZ01-1C4	C (CO)	12A, 250VAC, 85°C	30x10 <sup>3</sup>
RZ01-1.4	A (NO)	12A, 250VAC, 70°C	100x10 <sup>3</sup>
RZ0.-1A4	A (NO)	10A, 250VAC, 85°C	250x10 <sup>3</sup>
<b>UL 508</b>			
RZ03-1A.	A (NO)	16A, 250VAC, 85°C	50x10 <sup>3</sup>
RZ03-1A4	A (NO)	12A, 250VAC, 85°C	150x10 <sup>3</sup>
RZ01-1A3	A (NO)	12A, 250VAC, 85°C	50x10 <sup>3</sup>
RZ03-1.4	A (NO)	B300, R300, 85°C	6x10 <sup>3</sup>
RZ03-1.4	A (NO)	12A, 250VAC, 85°C	100x10 <sup>3</sup>
RZ03-1.4	A (NO)	1/2hp, 125VAC, 85°C	6x10 <sup>3</sup>
RZ03-1A.	A (NO)	1hp, 277VAC, 85°C	30x10 <sup>3</sup>

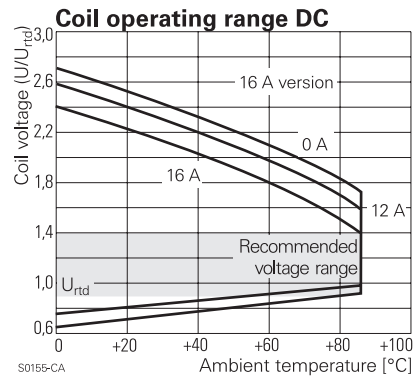
Mechanical endurance >10x10<sup>6</sup> operations  
1) planned rating



Coil Data	
Coil voltage range	3 to 48VDC
Operative range, IEC 61810	2
Coil insulation system according UL1446	class F

Coil versions, DC coil					
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
D003	3	2.1	0.3	22	410
D005	5	3.5	0.5	60	420
D006	6	4.2	0.6	90	400
D009	9	6.3	0.9	200	400
D012	12	8.4	1.2	360	400
D015	15	10.5	1.5	562	410
D024	24	16.8	2.4	1440	400
D048	48	33.6	4.8	5730	400

All figures are given for coil without pre-energization, at ambient temperature +23°C. Other coil voltages on request.



Insulation Data	
Initial dielectric strength	1000V <sub>rms</sub>
between open contacts	1000V <sub>rms</sub>
between contact and coil	5000V <sub>rms</sub>
Clearance/creepage	≥10/10mm
between contact and coil	≥10/10mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI250V

**Power PCB Relay RZ (Continued)**

**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](http://www.te.com/customersupport/rohssupportcenter)

Resistance to heat and fire standard cover version according EN 60335-1, par.30

Ambient temperature standard version -40 to 85°C  
clear cover -40 to 70°C

Category of environmental protection IEC 61810 RTII - flux proof

Vibration resistance (functional), 30 to 500Hz closing form A contact >15g  
opening form A contact >20g  
opening form B contact >5g

Shock resistance (destructive) 100g

Terminal type PCB-THT

Mounting distance standard version ≥0mm  
clear cover ≥14mm

Weight 10g

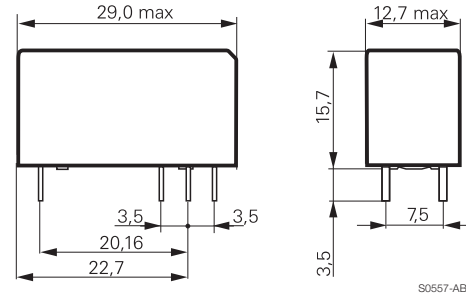
Resistance to soldering heat THT IEC 60068-2-20 270°C/10s<sup>2</sup>)

Packaging/unit tube/20 pcs., box/500 pcs.

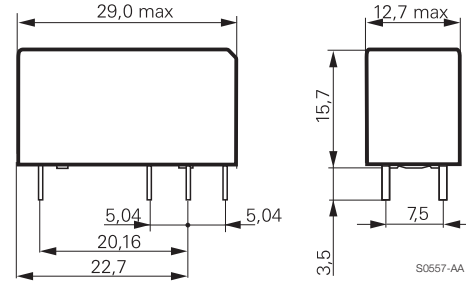
2) The use of foaming flux is not permitted.

**Dimensions**

12A, pinning 3.5mm



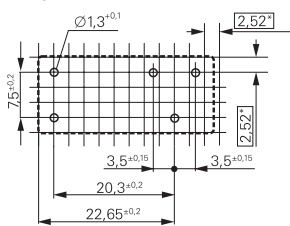
12A, 16A, pinning 5mm



**PCB layout / terminal assignment**

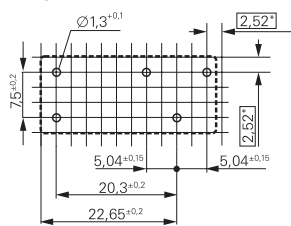
Bottom view on solder pins

12A, pinning 3.5mm



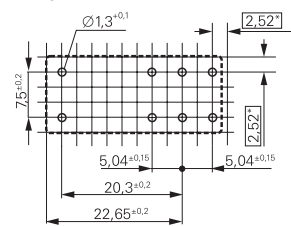
S0418-CB

12A, pinning 5mm



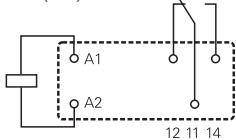
S0418-CN

16A, pinning 5mm



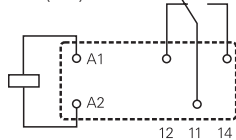
S0418-CA

1 form C (CO) contact



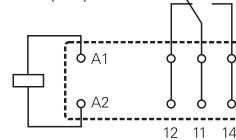
S0163-BG

1 form C (CO) contact



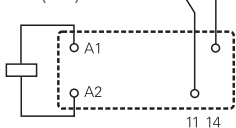
S0163-BC

1 form C (CO) contact



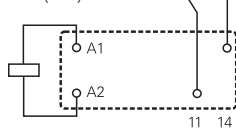
S0163-BE

1 form A (NO) contact



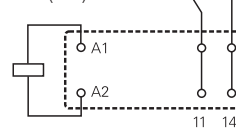
S0163-BH

1 form A (NO) contact



S0163-BD

1 form A (NO) contact



S0163-BF

Recommended pcb hole for manual mounting: Ø1.3mm

For automated mounting please ask for detailed drawing.

**Power PCB Relay RZ** (Continued)

<b>Product code structure</b>		Typical product code		<b>RZ</b>	<b>0</b>	<b>3</b>	<b>-1C</b>	<b>4</b>	<b>-D012</b>
<b>Type</b>	RZ Power PCB Relay RZ								
<b>Version</b>	0 standard version								
<b>Version</b>	1 3.5mm pinning, 12 A		3 5mm double pinning, 16 A						
	2 5mm pinning, 12 A		H High Performance 5mm double pinning, 16 A						
<b>Contact configuration</b>	1A 1 form A (1 NO) contact		1C 1 form C (1 CO) contact						
<b>Contact material</b>	4 AgNi 90/10		3 AgSnO <sub>2</sub>						
<b>Coil version</b>	Coil code: please refer to coil versions table								
<b>Cover version</b>	blank standard (orange)		000C clear (transparent)		R reinforced flux proof (epoxy)				

Product code	Version	Contacts	Contact material	Coil	Part number
RZ01-1A3-D005	12A	1 form A (NO)	AgSnO <sub>2</sub>	5VDC	3-1415899-7
RZ01-1A3-D006	pinning 3.5mm			6VDC	3-1415899-8
RZ01-1A3-D012				12VDC	3-1415899-9
RZ01-1A3-D024				24VDC	4-1415899-0
RZ01-1A3-D048				48VDC	4-1415899-1
RZ01-1A4-D005			AgNi 90/10	5VDC	1415899-1
RZ01-1A4-D006				6VDC	1415899-2
RZ01-1A4-D009				9VDC	1415899-3
RZ01-1A4-D012				12VDC	1415899-4
RZ01-1A4-D024				24VDC	1415899-5
RZ01-1A4-D048				48VDC	1415899-6
RZ01-1C3-D005		1 form C (CO)	AgSnO <sub>2</sub>	5VDC	4-1415899-2
RZ01-1C3-D006				6VDC	4-1415899-3
RZ01-1C3-D012				12VDC	4-1415899-4
RZ01-1C3-D024				24VDC	4-1415899-5
RZ01-1C3-D048				48VDC	4-1415899-6
RZ01-1C4-D005			AgNi 90/10	5VDC	1415899-7
RZ01-1C4-D006				6VDC	1415899-8
RZ01-1C4-D009				9VDC	1415899-9
RZ01-1C4-D012				12VDC	1-1415899-0
RZ01-1C4-D024				24VDC	1-1415899-1
RZ01-1C4-D048				48VDC	1-1415899-2
RZ03-1A3-D005	16A	1 form A (NO)	AgSnO <sub>2</sub>	5VDC	4-1415899-7
RZ03-1A3-D006	pinning 5mm			6VDC	4-1415899-8
RZ03-1A3-D012				12VDC	4-1415899-9
RZ03-1A3-D024				24VDC	5-1415899-0
RZ03-1A3-D048				48VDC	5-1415899-1
RZ03-1A4-D005			AgNi 90/10	5VDC	1-1415899-3
RZ03-1A4-D006				6VDC	1-1415899-4
RZ03-1A4-D009				9VDC	1-1415899-5
RZ03-1A4-D012				12VDC	1-1415899-6
RZ03-1A4-D024				24VDC	1-1415899-7
RZ03-1A4-D048				48VDC	1-1415899-8
RZ03-1C3-D005		1 form C (CO)	AgSnO <sub>2</sub>	5VDC	5-1415899-2
RZ03-1C3-D006				6VDC	5-1415899-3
RZ03-1C3-D012				12VDC	5-1415899-4
RZ03-1C3-D024				24VDC	5-1415899-5
RZ03-1C3-D048				48VDC	5-1415899-6
RZ03-1C4-D005			AgNi 90/10	5VDC	1-1415899-9
RZ03-1C4-D006				6VDC	2-1415899-0
RZ03-1C4-D009				9VDC	2-1415899-1
RZ03-1C4-D012				12VDC	2-1415899-2
RZ03-1C4-D015				15VDC	8-1415899-2
RZ03-1C4-D024				24VDC	2-1415899-3
RZ03-1C4-D048				48VDC	2-1415899-4
RZ01-1C4-D012-000C	Clear cover		AgNi 90/10	12VDC	6-1415899-8
RZ01-1C4-D024-000C	12A, pinning 3.5mm			24VDC	6-1415899-9
RZ03-1A4-D012-000C	Clear cover	1 form A (NO)		12VDC	7-1415899-2
RZ03-1A4-D024-000C	16A, pinning 5mm			24VDC	7-1415899-3
RZ03-1C4-D012-000C		1 form C (CO)		12VDC	7-1415899-0
RZ03-1C4-D024-000C				24VDC	7-1415899-1

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

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