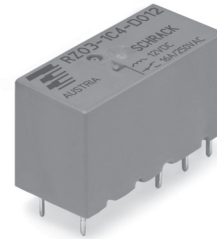


Power PCB Relay RZ

- 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
- Product in accordance to IEC 60335-1



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



F0305-A

Approvals

VDE Cert. No. 40023970, UL E214025, CQC 12002066685
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 ₂	80A	
Breaking capacity max.	3000VA	4000VA
Contact material	AgNi 90/10 or AgSnO ₂	
Frequency of operation, with/without load	360/72000h ⁻¹	
Operate/release time max.	8/6ms	
Bounce time max., form A/form B	4/10ms	

Contact ratings for standard version

Type	Contact	Load	Cycles
IEC 61810			
RZ03-1A4	A (NO)	16A, 250VAC, 85°C	50x10 ³
RZ03-1C4	C (CO)	16A, 250VAC, 85°C	10x10 ³
RZ01-1A3	A (NO)	12A, 250VAC, 85°C	100x10 ³
RZ01-1A4	A (NO)	12A, 250VAC, 85°C	50x10 ³
RZ01-1C4	C (CO)	12A, 250VAC, 85°C	30x10 ³
RZ01/3-1A4	A (NO)	10A, 250VAC, 85°C	150x10 ³
RZ0H-1A4	A (NO)	12A, 250VAC, 85°C	150x10 ³
RZ0H-1A4	A (NO)	16A, 250VAC, 85°C	50x10 ³
RZ0H-1A4	A (NO)	18A, 250VAC, 85°C	30x10 ³
UL 508			
RZ03-1A.	A (NO)	16A, 250VAC, 85°C	50x10 ³
RZ03-1A4	A (NO)	12A, 250VAC, 85°C	150x10 ³
RZ01-1A3	A (NO)	12A, 250VAC, 85°C	50x10 ³
RZ03-1.4	A (NO)	B300, R300, 85°C	6x10 ³
RZ03-1.4	A (NO)	12A, 250VAC, 85°C	100x10 ³
RZ03-1.4	A (NO)	1/2hp, 125VAC, 85°C	6x10 ³
RZ03-1A.	A (NO)	1hp, 277VAC, 85°C	30x10 ³

Contact ratings for RZ reinforced flux proof version

Type	Contact	Load	Cycles
IEC 61810			
RZ03-1C4-D...-R	A (NO)	16A, 250VAC, 85°C	30x10 ³
RZ03-1C4-D...-R	C (CO)	16A, 250VAC, 85°C	6x10 ³
RZ02/3-1C4-D...-R	A (NO)	12A, 250VAC, 85°C	50x10 ³
RZ02/3-1C4-D...-R	C (CO)	16A, 250VAC, 85°C	20x10 ³
UL 508			
RZ03-1C4-D...-R	A (NO)	16A, 277VAC, 85°C	30x10 ³
RZ03-1C4-D...-R	C (CO)	16A, 277VAC, 85°C	6x10 ³
RZ02/3-1C4-D...-R	A (NO)	12A, 277VAC, 85°C	50x10 ³
RZ02/3-1C4-D...-R	C (CO)	12A, 277VAC, 85°C	20x10 ³

Mechanical endurance >10x10⁶ operations

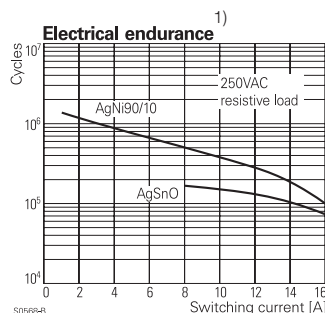
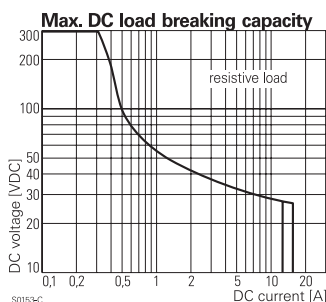
Coil Data

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

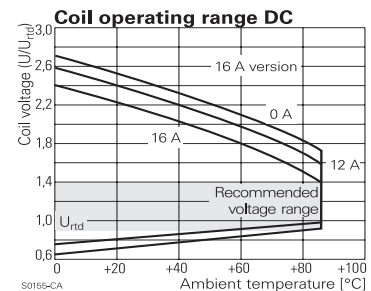
Coil versions, DC coil

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.



1) valid for standard version



Power PCB Relay RZ (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	PTI250V

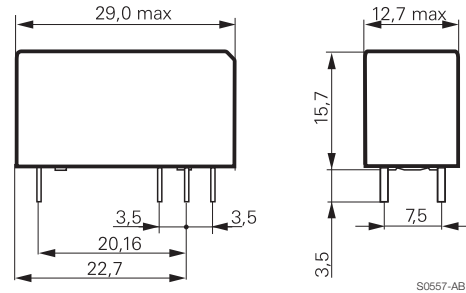
Other Data

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	
standard cover version	according EN 60335-1, par.30
Ambient temperature	
standard version	-40 to 85°C
Category of environmental protection	
IEC 61810	RTII - flux proof
Vibration resistance (functional), 30 to 100Hz	
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
Weight	10g
Resistance to soldering heat THT	
IEC 60068-2-20	270°C/10s ²)
Packaging/unit	tube/20 pcs., box/500 pcs.

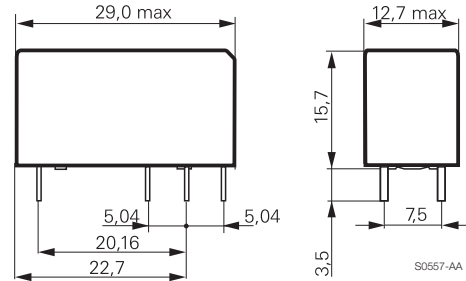
2) The use of foaming flux is not permitted.

Dimensions

12A, pinning 3.5mm



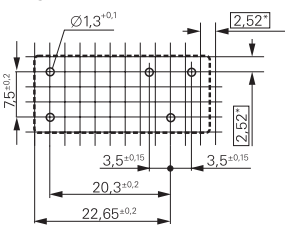
12A, 16A, pinning 5mm



PCB layout / terminal assignment

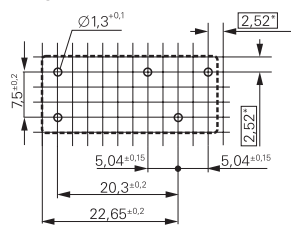
Bottom view on solder pins

12A, pinning 3.5mm



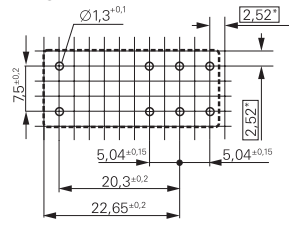
S0418-CB

12A, pinning 5mm



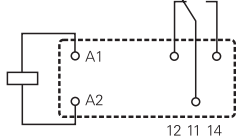
S0418-CN

16A, pinning 5mm



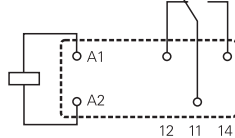
S0418-CA

1 form C (CO) contact



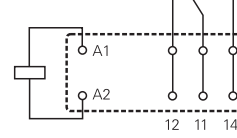
S0163-BG

1 form C (CO) contact



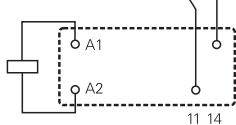
S0163-BC

1 form C (CO) contact



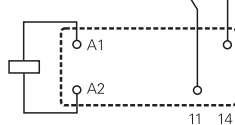
S0163-BE

1 form A (NO) contact



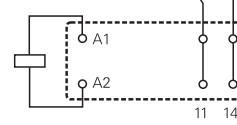
S0163-BH

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)

Product code structure

Typical product code

RZ 0 3 -1C 4 -D012

Type	RZ Power PCB Relay RZ				
Version	0 standard version				
Version	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			
Contact configuration	1A 1 form A (1 NO) contact		1C 1 form C (1 CO) contact		
Contact material	4 AgNi 90/10		3 AgSnO ₂		
Coil version	Coil code: please refer to coil versions table				
Cover version	blank standard (orange)		R reinforced flux proof (epoxy)		

Product code	Version	Contacts	Contact material	Coil	Part number
RZ01-1A3-D005	12A	1 form A (NO)	AgSnO ₂	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 ₂	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 ₂	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 ₂	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
RZ03-1C4-D012-R	16A, pinning 5mm	1 form C (CO)	AgNi 90/10	12VDC	7-1415899-7
RZ03-1C4-D024-R	reinforced flux proof			24VDC	7-1415899-9
RZ0H-1A4-D012	16A, pinning 5mm, High Performance	1 form A (NO)	AgNi 90/10	12VDC	9-1415899-4

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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