

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

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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	O) or 1 form A (NO)
Rated voltage	2	250VAC
Max. switching voltage	4	100VAC
Rated current	12A	16A
Limiting making current (form A contact))	
max. 4s, duty factor 10%		30A
max. 20ms (incandescent lamp); AgS	SnO_2	80A
Breaking capacity max.	3000VA	4000VA
Contact material		/10 or AgSnO ₂
Frequency of operation, with/without loa	ad 360)/72000h ⁻¹
Operate/release time max.		8/6ms
Bounce time max., form A/form B		4/6ms

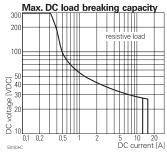
Contact ratings

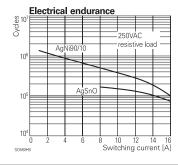
Туре	Contact	Load	Cycles
IEC 61810			
RZ03-1A.	A (NO)	16A, 250VAC, 85°C	50x10 ³
RZ03-1C4	C (CO)	16A, 250VAC, 85°C	10x10 ³
RZ01-1A3	A (NO)	12A, 250VAC, 85°C	100x10 ^{3 1)}
RZ01-1A4	A (NO)	12A, 250VAC, 85°C	50x10 ³
RZ01-1C4	C (CO)	12A, 250VAC, 85°C	30x10 ³
RZ01-1.4	A (NO)	12A, 250VAC, 70°C	100x10 ³
RZ01A4	A (NO)	10A, 250VAC, 85°C	250x10 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

Mechanical endurance

>10x10⁶ operations

1) planned rating	g
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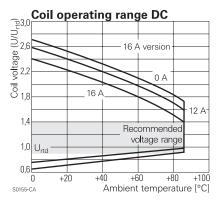


Coil Data		
Coil voltage range	3 to 48VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL1446	class F	

Coil ve	rsions.	DC	coil
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COII VEIS	nons, DC Co				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%$	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		
between open contacts	$1000V_{rms}$	
between contact and coil	5000V _{rms}	
Clearance/creepage		
between contact and coil	≥10/10mm	
Material group of insulation parts	Illa	
Tracking index of relay base	PTI250V	



Power PCB Relay RZ (Continued)

Other Data

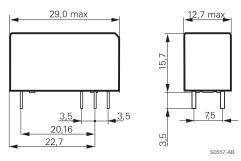
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Resistance to heat and fire standard cover version according EN 60335-1, par.30 Ambient temperature -40 to 85°C standard version clear cover -40 to 70°C Category of environmental protection RTII - flux proof IEC 61810 Vibration resistance (functional), 30 to 500Hz closing form A contact >15g opening form A contact >20g , >5g opening form B contact Shock resistance (destructive) 100g Terminal type PCB-THT Mounting distance standard version ≥0mm ≥14mm clear cover Weight 10g Resistance to soldering heat THT IEC 60068-2-20 270°C/10s2)

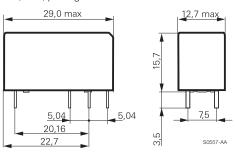
Packaging/unit

Dimensions

12A, pinning 3.5mm



12A, 16A, pinning 5mm



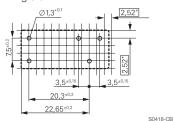
PCB layout / terminal assignment

Bottom view on solder pins

Recommended pcb hole for manual mounting: Ø1.3mm

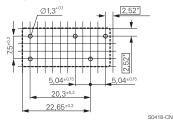
For automated mounting please ask for detailed drawing.



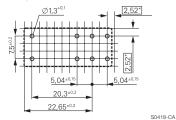


12A, pinning 5mm

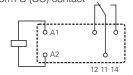
tube/20 pcs., box/500 pcs.



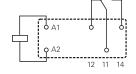
16A, pinning 5mm



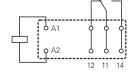
1 form C (CO) contact



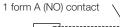
1 form C (CO) contact

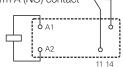


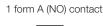
1 form C (CO) contact

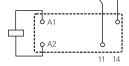


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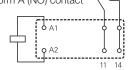








1 form A (NO) contact



S0163-BG

S0163-BC

²⁾ The use of foaming flux is not permitted.



Power PCB Relay RZ (Continued)

Product	code structure	1	Typical product code R	Z 0	3	-1C	4	-D012
Туре								
RZ	Z 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 5r	mm double pinning, 16 A					
Contact o	configuration	-				_		
1A	1 form A (1 NO) contact	1C 1 form C (1 CO) cont	tact					
Contact r	material							
4	AgNi 90/10	3 AgSnO ₂						
Coil versi	ion							-
Co	oil code: please refer to coil version	ole						
Cover ver	rsion							
bla	ank standard (orange)	000C clear (trans	parent) R	rein	forced flu	x proof (e	poxy)	

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			1 19.11 00, 10	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		1 101111 0 (00)	Agono ₂	6VDC	4-1415899-3
RZ01-1C3-D000				12VDC	4-1415899-4
RZ01-1C3-D012				24VDC	4-1415899-4
				48VDC	
RZ01-1C3-D048			A =:NE 00 /10		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		` ′	<u> </u>	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			1 13. 11 33, 13	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		Ag(4) 50/ 10	24VDC	6-1415899-9
RZ03-1A4-D012-000C	Clear cover	1 form A (NO)		12VDC	7-1415899-2
RZ03-1A4-D012-000C	16A, pinning 5mm	I IOIIII A (NO)	-	24VDC	7-1415899-2
RZ03-1C4-D012-000C	TOA, PITITING SITITI	1 form C (CO)		12VDC	7-1415899-0
		1 101111 0 (00)			
RZ03-1C4-D024-000C				24VDC	7-1415899-1

Other types on request