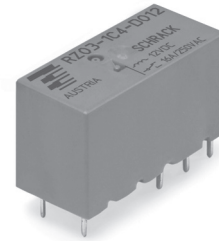


Power PCB Relay RZ

- 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

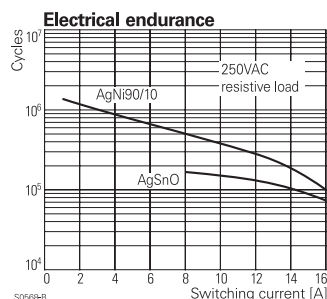
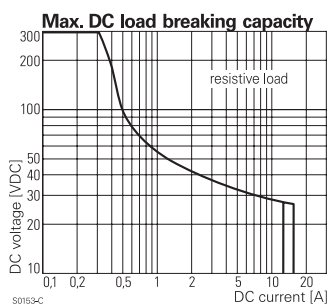
Contact Data	12A	16A
Contact arrangement	1 form C (CO) or 1 form A (NO)	
Rated voltage	250VAC	
Max. switching voltage	400VAC	
Rated current	12A	16A
Limiting making current (form A contact)		
max. 4s, duty factor 10%	30A	
max. 20ms (incandescent lamp); AgSnO ₂	80A	
Breaking capacity max.	3000VA	4000VA
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	4/6ms	

Contact ratings

Type	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
RZ0.-1A4	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



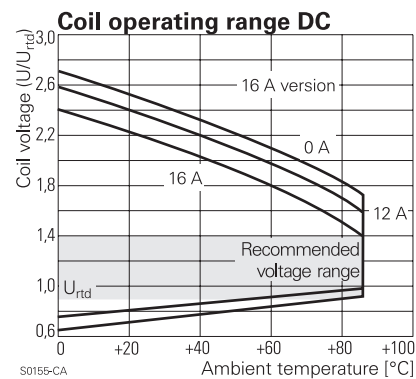
Coil Data

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 $\Omega \pm 10\%$	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	
between open contacts	1000V _{rms}
between contact and coil	5000V _{rms}
Clearance/creepage	
between contact and coil	≥10/10mm
Material group of insulation parts	IIla
Tracking index of relay base	PTI250V

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 AgSnO₂
Coil version

Coil code: please refer to coil versions table

Cover version
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 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
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