

Power PCB Relay RZL

- 1 pole 12/16 A, 1 form C (CO) or 1 form A (NO) contact
- DC coil 530 mW
- 5kV/10mm coil-contact, reinforced insulation
- Ambient temperature 70°C (special applications 85°C)

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





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VDE Cert. No. 40023970, UL E214025, CQC 14001114367, CQC 14002113865

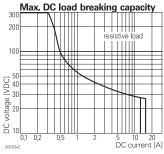
Technical data of approved types on request

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%	3	0A	
Breaking capacity max.	3000VA	4000VA	
Contact material	AgNi 90/10		
Contact style single contact			
Frequency of operation, with/without loa	id 360/72	2000h ⁻¹	
Operate/release time max.	8/6ms		
Bounce time max., form A/form B	4/6ms		

Contact ratings

Туре	Contact	Load	Cycles
IEC 61810 ¹⁾			
RZL3-1A4.	A (NO)	16A, 250VAC, 85°C	50x103
RZL3-1C4.	C (CO)	16A, 250VAC, 85°C	10x10 ³
RZL3-1A4.	A (NO)	16A, 250VAC, 70°C	100x10 ³
RZL1-1A4	A (NO)	12A, 250VAC, 85°C	100x10 ³
RZL1-1A4	A (NO)	16A, 250VAC, 70°C	100x10 ³
RZL3-1A4.	A (NO)	8A, cosφ=0.4, 250VAC, 25°C	100x10 ³
RZL3-1C4.	B (NC)	8A, 250VAC, 25°C	100x10 ³
UL 508 ¹⁾			
RZL3-1A4.	A (NO)	16A, 250VAC, 85°C	50x10 ³
RZL3-1C4.	C (CO)	16A, 250VAC, 85°C	10x10 ³
RZL3-1A4.	A (NO)	16A, 250VAC, 70°C	100x10 ³
RZL1-1A4	A (NO)	12A, 250VAC, 85°C	100x10 ³
RZL1-1A4	A (NO)	16A, 250VAC, 70°C	100x10 ³
RZL1/3-1A4.	A (NO)	1hp, 240VAC, 25°C	6x10 ³
RZL1/3-1A4.	A (NO)	1/2hp, 120VAC, 70°C	6x10 ³
1) Ratings only fo	r P7L flux proof	(P) voreion. Wash tight ratings on request	

1) Ratings only for RZL flux proof (R) version. Wash tight ratings on request



Coil Data		
Coil voltage range	5 to 48VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL1446	class F	

Coil	versions, DC coil
0 '	

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
L005	5	3,5	0,5	47	530
L006	6	4,2	0,6	67	530
L009	9	6,3	0,9	153	530
L012	12	8,4	1,2	272	530
L024	24	16,8	2,4	1086	530
L048	48	33,6	4,8	4347	530

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

1000V _{rms}	
5000V _{rms}	
≥10/10mm	
IIIa	
PTI250V	
	5000V _{rms} ≥10/10mm Illa

Other Data
Material compliance: EU RoHS/ELV, China RoHS compliance,

Ambient temperature standard version -40 to 70°C special applications -40 to 85°C

Category of environmental protection

RTII - flux proof; RTIII wash tight IEC 61810

Vibration resistance (functional), 30 to 500Hz closing form A contact

>15g >20g opening form A contact , >5g opening form B contact Shock resistance (destructive) 100g Terminal type PCB-THT Mounting distance standard version ≥0mm

Weight Resistance to soldering heat THT

IEC 60068-2-20 260°C/10s2) Packaging/unit tube/20 pcs., box/500 pcs

2) The use of foaming flux is not permitted.

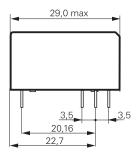
10g

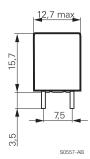


Power PCB Relay RZL (Continued)

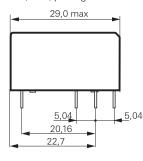
Dimensions

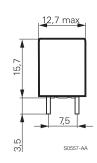
12A/16A, pinning 3.5mm ²⁾





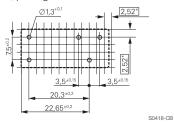
12A, 16A, pinning 5mm ²⁾



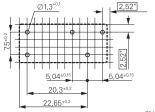


PCB layout / terminal assignment

Bottom view on solder pins



16A, pinning 5mm

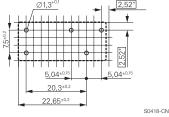


Recommended pcb hole for manual mounting: Ø1.3mm

For automated mounting please ask for detailed drawing.

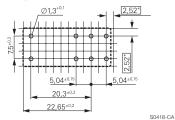
12A/16A, pinning 3.5mm ²⁾



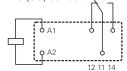


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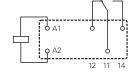
16A, pinning 5mm



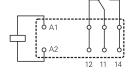
1 form C (CO) contact



1 form C (CO) contact



1 form C (CO) contact



S0163-BE



1 form A (NO) contact 6 A1

1 form A (NO) contact 6 A1

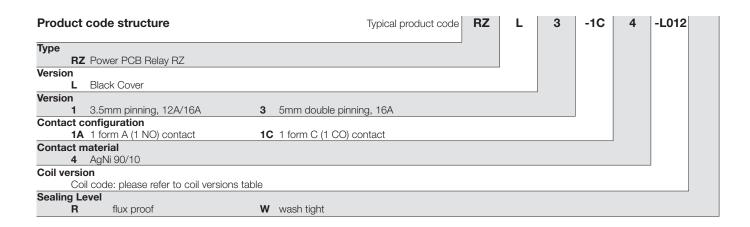
2) For 1 Form C type, subject to develop as market requirement

S0163-BG

S0163-BC



Power PCB Relay RZL (Continued)



Product code	Version	Contacts	Contact material	Coil	Part number
RZL1-1A4-L012-R	12A/16A, pinning 3.5mm, flux proof	1 form A (NO)	AgNi 90/10	12VDC	2158100-4
RZL3-1A4-L012-R	16A, pinning 5mm, flux proof	1 form A (NO)		12VDC	1-2158100-6
RZL3-1A4-L024-R		1 form A (NO)		24VDC	1-2158100-7
RZL3-1C4-L012-R		1 form C (CO)		12VDC	2-2158100-2
RZL3-1C4-L024-R		1 form C (CO)		24VDC	2-2158100-3
RZL3-1A4-L012-W	16A, pinning 5mm, wash tight	1 form A (NO)		12VDC	4-2158100-0
RZL3-1C4-L024-W		1 form C (CO)		24VDC	4-2158100-7

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

Other types on request