

Power PCB Relay RZL

- 1 pole 12/16 A, 1 form C (CO) or 1 form A (NO) contact
- DC coil 530 mW

CQC 14002113865

Contact ratings

Technical data of approved types on request

- 5kV/10mm coil-contact, reinforced insulation
- Ambient temperature 70°C (special applications 85°C)

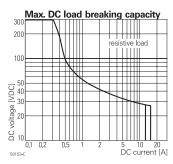
Typical applications Household appliances, boiler control, timers, garage door control

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

Contact Data	12A	16A	
Contact arrangement	1 form C (CO) o	or 1 form A (NO)	
Rated voltage	250	VAC	
Max. switching voltage	400VAC		
Rated current	12A	16A	
Limiting making current (form A contact	ct)		
max. 4s, duty factor 10%	30	OA	
Breaking capacity max.	3000VA	4000VA	
Contact material	AgNi	90/10	
Initial contact resistance	≤100 mΩ a	at 1A/24Vdc	
Contact style	single (contact	
Frequency of operation, with/without le	oad 360/72	2000h ⁻¹	
Operate/release time max.	8/6	Sms	
Bounce time max., form A/form B	4/6	3ms	

Contact	Load	Cycles
A (NO)	16A, 250VAC, 85°C	50x10 ³
C (CO)	16A, 250VAC, 85°C	10x10 ³
A (NO)	16A, 250VAC, 70°C	100x10 ³
A (NO)	12A, 250VAC, 85°C	100x10 ³
A (NO)	16A, 250VAC, 70°C	100x10 ³
A (NO)	8A, cosφ=0.4, 250VAC, 25°C	100x10 ³
B (NC)	8A, 250VAC, 25°C	100x10 ³
A (NO)	16A, 250VAC, 85°C	50x10 ³
C (CO)	16A, 250VAC, 85°C	10x10 ³
A (NO)	16A, 250VAC, 70°C	100x10 ³
A (NO)	12A, 250VAC, 85°C	100x10 ³
A (NO)	16A, 250VAC, 70°C	100x10 ³
A (NO)	1hp, 240VAC, 25°C	6x10 ³
A (NO)	1/2hp, 120VAC, 70°C	6x10 ³
	A (NO) C (CO) A (NO) A (NO) A (NO) B (NC) A (NO) C (CO) A (NO)	A (NO) 16A, 250VAC, 85°C C (CO) 16A, 250VAC, 85°C A (NO) 16A, 250VAC, 70°C A (NO) 12A, 250VAC, 70°C A (NO) 16A, 250VAC, 70°C A (NO) 8A, cosp=0.4, 250VAC, 25°C B (NC) 8A, 250VAC, 25°C A (NO) 16A, 250VAC, 85°C C (CO) 16A, 250VAC, 85°C A (NO) 16A, 250VAC, 85°C A (NO) 16A, 250VAC, 85°C A (NO) 16A, 250VAC, 70°C

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



Mechanical endurance





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

Coil vers	sions, DC co	oil			
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.

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 compliance,				
Ambient temperature				
standard version	-40 to 70°C			
special applications	-40 to 85°C			
Category of environmental protection				
IEC 61810	RTII - flux proof; RTIII wash tight			
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			
Weight	10g			
Resistance to soldering heat THT				
IEC 60068-2-20	260°C/10s ²⁾			
Packaging/unit	tube/20 pcs., box/500 pcs.			
2) The use of foaming flux is not permitted				

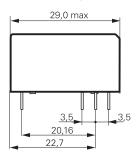
10x10⁶

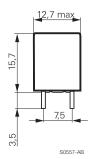


Power PCB Relay RZL (Continued)

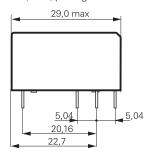
Dimensions

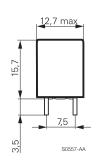
12A/16A, pinning 3.5mm ²⁾





12A, 16A, pinning 5mm ²⁾

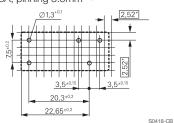




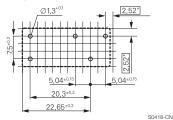
PCB layout / terminal assignment

Bottom view on solder pins

12A/16A, pinning 3.5mm ²⁾



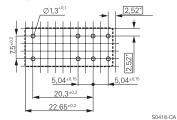
16A, pinning 5mm



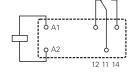
Recommended pcb hole for manual mounting: Ø1.3mm

For automated mounting please ask for detailed drawing.

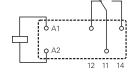
16A, pinning 5mm



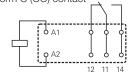
1 form C (CO) contact



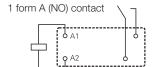
1 form C (CO) contact



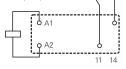
1 form C (CO) contact



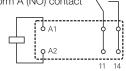
S0163-BE



1 form A (NO) contact



1 form A (NO) contact



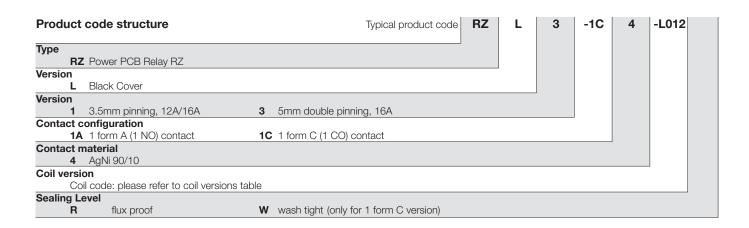
2) For 1 Form C type, subject to develop as market requirement

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
RZL3-1C4-L024-W	16A, pinning 5mm, wash tight	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

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