

E0305-4

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

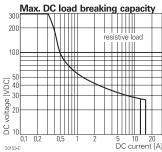
Approvals VDE Cert. No. 40023970, UL E214025, CQC 14001114367, CQC 14002113865

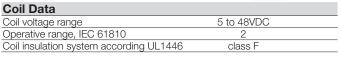
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Contact Data	12A	16A		
Contact arrangement	1 form C (CO)	or 1 form A (NO)		
Rated voltage	250	OVAC		
Max. switching voltage	400	OVAC		
Rated current	12A	16A		
Limiting making current (form A contact	t)			
max. 4s, duty factor 10%	3	30A		
Breaking capacity max.	3000VA	4000VA		
Contact material	AgNi 90/10			
Initial contact resistance	≤100 mΩ	at 1A/24Vdc		
Contact style	single	contact		
Frequency of operation, with/without loa	ad 360/7	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	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					
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					
Mechanical en	durance		10x10 ⁶					

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





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Coll versions, DC coll									
Coil	Rated	Operate	Release	Coil	Rated coil				
code	voltage	voltage	voltage	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

mould for 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	

Other Data

laterial compliance: EU RoHS/ELV, China RoHS compliance,	
mbient temperature	

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.

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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

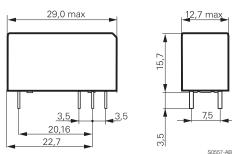
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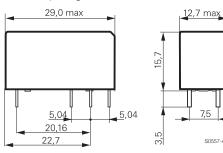
Power PCB Relay RZL (Continued)

Dimensions

12A/16A, pinning 3.5mm ²⁾



12A, 16A, pinning 5mm²⁾



S0557-AA

16A, pinning 5mm

1 form C (CO) contact

1 form A (NO) contact

6 A1

9 A2

6 A1

q A2

Ø1,3

<u>5,04±0</u>,

20,3±0,3

22,65^{±0,2}

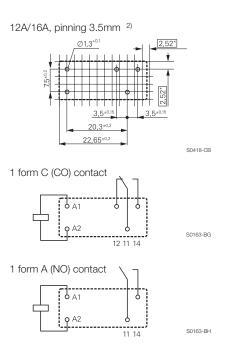
12 11 14

11

14

PCB layout / terminal assignment

Bottom view on solder pins



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

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Recommended pcb hole for manual mounting: Ø1.3mm

For automated mounting please ask for detailed drawing.

16A, pinning 5mm

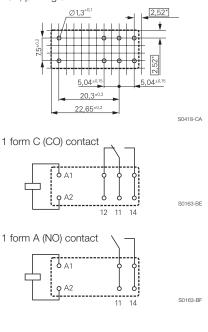
2,52*

5,04±0

S0418-CN

S0163-BC

S0163-BD





Power PCB Relay RZL (Continued)

Produc	t code structure		Typical product code	RZ	L	3	-1C	4	-L012
Туре]						
	Z Power PCB Relay RZ								
Version									
L	. Black Cover								
Version						-			
1	3.5mm pinning, 12A/16A	3	5mm double pinning, 16A						
Contact	configuration		·						
1/	A 1 form A (1 NO) contact	1C	1 form C (1 CO) contact						
Contact	material						ĺ		
4	AgNi 90/10								
Coil vers	sion								
С	Coil code: please refer to coil versions tab	ole							
Sealing L	Level								
Ř		W	wash tight (only for 1 form C version)						

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

3

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