

Power PCB Relay RPII/2

- 2 pole 8A, 2 form C (CO) or 2 form A (NO) contacts
- 4kV/8mm coil-contact
- **■** Twin contacts available
- RoHS compliant (Directive 2002/95/EC)

Typical applications Domestic appliances, UPS



VDE CALIS

Approvals

VDE REG.-Nr. C894, UL E214024

Technical data of approved types on request

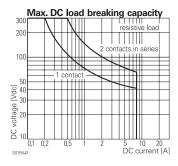
Contact Data	
Contact arrangement	2 form C (CO) or 2 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	8A (UL: 10A)
Limiting making current, max 4s, duty	factor 10% 14A
Breaking capacity max.	2000VA
Contact material	AgCdO, AgNi0.15
Frequency of operation, with/without	load 600/72000h ⁻¹
Operate/release time typ.	9/3ms
Bounce time typ., form A/form B	2/3ms

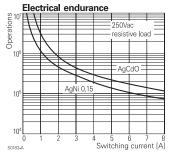
Contact ratings

Ourtact ratii	igo		
Туре	Contact	Load	Cycles
IEC61810			
RP420/421	A (NO)	8A, 250VAC, resistive, 35°C	100x10 ³
RP420	A (NO)	5A, 250VAC, resistive, 70°C	30x10 ³

Mechanical endurance

>20x10⁶ operations



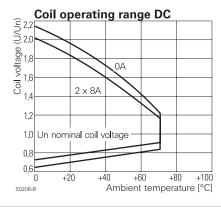


Coil Data	
Coil voltage range	5 to 110VDC
Operative range, IEC 61810	2

Coil versions, DC coil							
Coil	Rated	Operate	Release	Coil	Rated coil		
code	voltage	voltage	voltage	resistance	power		
	VDC	VDC	VDC	$\Omega \pm 10\%^{1)}$	mW		
005	5	3.5	0.5	54	500		
006	6	4.2	0.6	68	500		
012	12	8.4	1.2	270	500		
024	24	16.8	2.4	1100 ¹⁾	500		
048	48	33.6	4.8	4400 ¹⁾	500		
060	60	42.0	6.0	6540 ¹⁾	500		
110	110	77.0	11.0	23100 ¹⁾	500		

1) Coil resistance ±15%.

All figures are given for coil without pre-energization, at ambient temperature +20°C. Other coil voltages on request.



Insulation Data		
Initial dielectric strength		
between open contacts	1000V _{rms}	
between contact and coil	4000V _{rms}	
between adjacent contacts	2500V _{rms}	
Clearance/creepage		
between contact and coil	≥8/8mm	
Material group of insulation parts	IIIa	



Power PCB Relay RPII/2 (Continued)

S0273-AB

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

Ambient temperature -40 to +70°C

Category of environmental protection

IEC 61810 RTII - flux proof, RTIII - wash tight

Vibration resistance (functional),

 form A/form B, 30 to 150Hz
 11/1.5g

 Shock resistance (destructive)
 100g

 Terminal type
 PCB-THT

 Weight
 18g

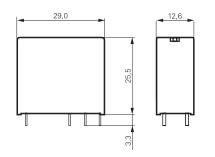
Resistance to soldering heat THT, IEC 60068-2-20

flux proof version 270°C/10s wash tight version 260°C/5s

Packaging/unit tube/20 pcs., box/500 pcs.

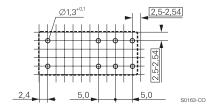
Dimensions

Dimensions in mm

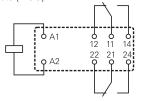


PCB layout / terminal assignment

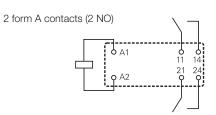
Bottom view on solder pins Dimensions in mm



2 form C contacts (2 CO)



S0163-BJ



S0163-BK

Product	code structure		Typical product code RP 4 2 0 0)24
Туре				
	P Power PCB Relay RPII/2			
Version				
4	8A, flux proof	8	8A, wash tight	
Contact a	arrangement			
2	2 form C (2 CO)	4	2 form A (2 NO)	
Contact r	material			
1	AgNi0.15	0	AgCdO	
Coil			<u> </u>	
	oil code: please refer to coil versions table			

Product code	Version	Contact arrangement	Contact material	Pinning	Part number
RP420006	Flux proof, 8A	2 form C (CO) contacts	AgCdO	6VDC	4-1393234-8
RP420012				12VDC	5-1393234-0
RP420024				24VDC	5-1393234-1
RP420048				48VDC	5-1393234-2
RP421012			AgNi0.15	12VDC	6-1393234-7
RP421024				24VDC	6-1393234-8
RP421110				110VDC	7-1393234-1
RP820012	Wash tight, 8A		AgCdO	12VDC	9-1393234-0
RP820024				24VDC	9-1393234-2
RP821012			AgNi0.15	12VDC	1393845-4
RP821024				24VDC	1393845-5

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