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)**



F0150-B

Typical applications
Domestic appliances, UPS

Approvals

VDE REG.-Nr. C894, UL E214024
Technical data of approved types on request

Contact Data

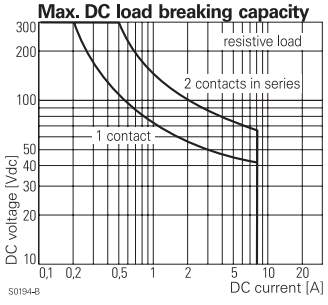
Contact arrangement	2 form C (CO) or 2 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	8A (UL: 10A)
Limiting making current, max 4s, duty factor 10%	14A
Breaking capacity max.	2000VA
Contact material	AgCdO, AgNi0.15
Frequency of operation, with/without load	600/72000h^{-1}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

Contact ratings

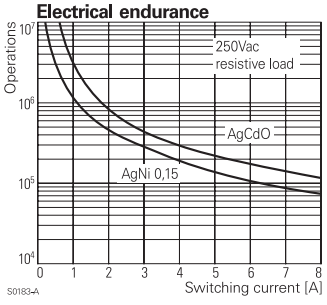
Type	Contact	Load	Cycles
IEC61810			
RP420/421	A (NO)	8A, 250VAC, resistive, 35°C	100x10^3
RP420	A (NO)	5A, 250VAC, resistive, 70°C	30x10^3

Mechanical endurance >20x10^6 operations

Max. DC load breaking capacity



Electrical endurance



Coil Data

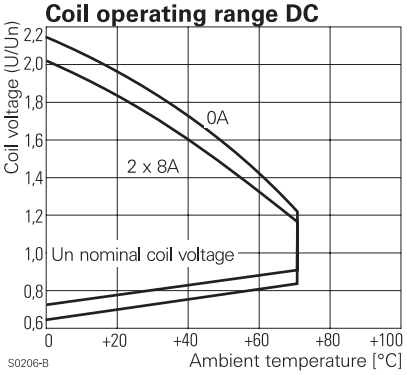
Coil voltage range	5 to 110VDC
Operative range, IEC 61810	2

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%[1)]	Rated coil power 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.

Coil operating range DC



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

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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.

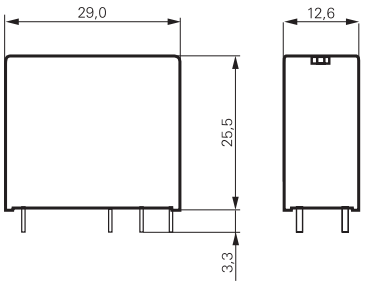
Power PCB Relay RPII/2 (Continued)

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.

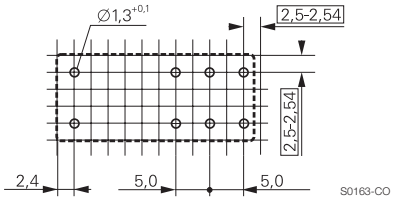
Dimensions

Dimensions in mm

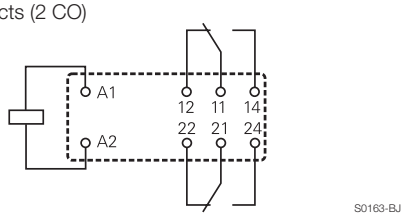


PCB layout / terminal assignment

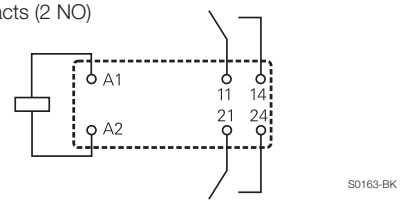
Bottom view on solder pins
Dimensions in mm



2 form C contacts (2 CO)



2 form A contacts (2 NO)



Product code structure

Typical product code: **RP 4 2 0 024**

Type
RP Power PCB Relay RPII/2

Version
4 8A, flux proof
8 8A, wash tight

Contact arrangement
2 2 form C (2 CO)
4 2 form A (2 NO)

Contact material
1 AgNi0.15
0 AgCdO

Coil
Coil 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

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