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

F0150-B

VDE c **UL** us

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

S0194-B

Electrical endurance

S0183-A
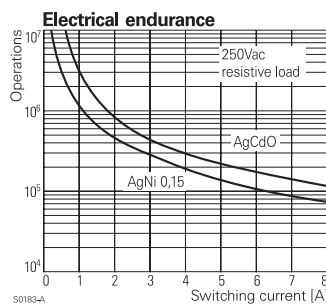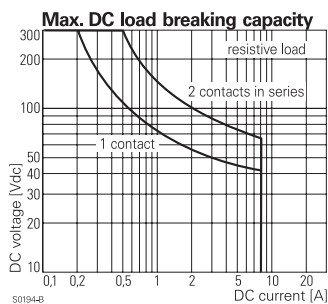
### Coil Data

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

S0206-B
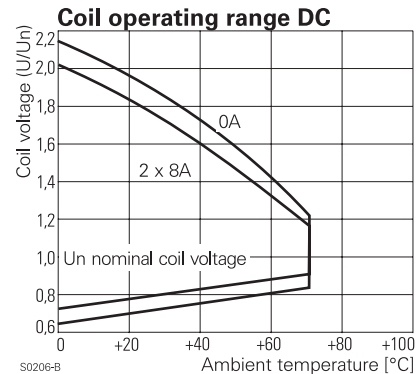
Insulation Data

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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)

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

S0273-AB
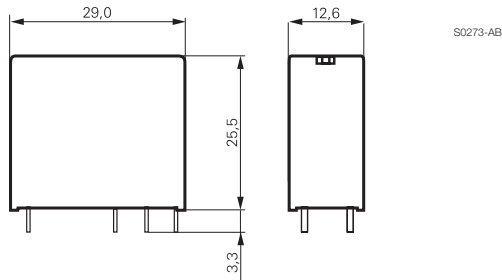
PCB layout / terminal assignment

Bottom view on solder pins
Dimensions in mm

S0163-CO
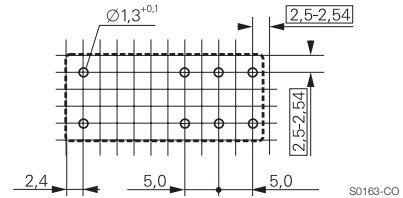
2 form C contacts (2 CO)

S0163-BJ
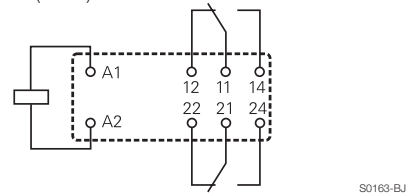
2 form A contacts (2 NO)

S0163-BK
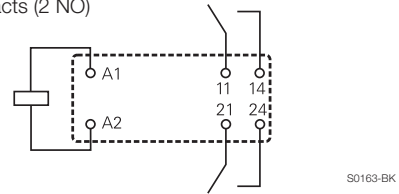
Product code structure

			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.