

Power PCB Relay RPII/2

- 2 pole 8 A, 2 form C (CO) or 2 form A (NO) contacts
- 4 kv/8 mm coil contact
- Twin contacts available



Applications
Domestic appliances, UPS



F0150-B

Approvals

VDE Cert. No. 40025448, UL E214024
Technical data of approved types on request

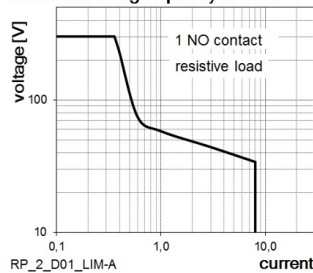
Contact Data

Contact configuration	2 form C (CO) or 2 form A (NO)
Rated voltage / max.switching voltage AC	250 VAC
Max. switching voltage	400 VAC
Rated current	8 A (UL: 10A)
Limiting making capacity, max 4 s, duty factor 10%	14 A
Breaking capacity max.	2000 VA
Contact material	AgNi 90/10 AgNi0.15 gold flashed
Frequency of operation with / without load	600 / 36000 h ⁻¹
Operate/release time typ.	9/3 ms
Bounce time typ., form A/form B	2/3 ms

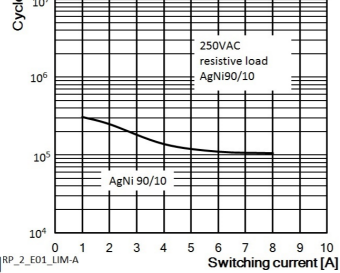
Contact ratings

Type	Contact	Load	Cycles
IEC61810			
RP421	A (NO)	8A, 250 VAC, resistive, 35°C	100x10 ³
RP424 DC-coil	A (NO)	8A, 250 VAC, resistive, 35°C	100x10 ³
RP424 DC-coil	C (CO)	5A, 250 VAC, resistive, 70°C	20x10 ³
RP424 DC-coil	A (NO)	8A, 250 VAC, resistive, 70°C	30x10 ³
RP424 REM	A (NO)	8A, 250 VAC, resistive, 35°C	50x10 ³
UL508			
RP420	C (CO)	10A, 250 VAC, gen. purp, 70°C	6x10 ³
RP421	C (CO)	8A, 250 VAC, gen. purp, 40°C	6x10 ³
RP424	A (NO)	10A, 250 VAC, gen. purp, 65°C	30x10 ³
RP424	C (CO)	8A, 250 VAC, gen. purp, 70°C	6x10 ³
RP424	A (NO)	1/2 HP, 240 VAC, 70°C	6x10 ³

Max. breaking capacity RPII/2



Electrical endurance



Coil Data

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

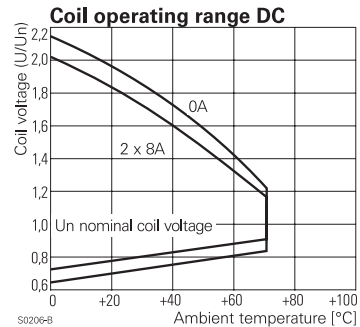
Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%$ ¹⁾	Rated 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 $\pm 15\%$.

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

Other coil voltages on request.



Coil versions, REM I (1 coil bistable/remance)

Coil code	Rated voltage VDC	Resistance $\Omega \pm 15\%$	Magnetisation range MIN./Vdc MAX./Vdc	Demagnetisation range MIN./Vdc MAX./Vdc
A12	12	115	9 18	3 4.8
A24	24	460	18 36	6 9.6
A48	48	1748	36 72	12 19.2

Coil versions, REM II (2 coil bistable/remance)

Coil code	Rated voltage VDC	Resistance $\Omega \pm 15\%$	Magnetisation range MIN./Vdc MAX./Vdc	Demagnetisation range MIN./Vdc MAX./Vdc
F05	5	20	3.7 7.5	3.7 6
F12	12	105	9 18	9 14.4
F24	24	460	18 36	18 28.8

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

Other coil voltages on request.

Power PCB Relay RPII/2 (Continued)

Insulation

Initial dielectric strength	
coil-contact circuit	4000V _{rms}
open contact circuit	1000V _{rms}
adjacent contact circuits	2500V _{rms}
Clearance/creepage	
coil-contact circuit	≥8/8mm
Material group of insulation parts	IIIa

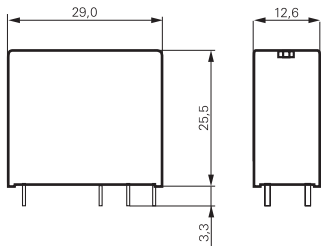
Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customer-support/rohssupportcenter

Ambient temperature	-40 to +70°C
Category of environmental 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
Resistance to soldering heat THT, IEC 60068-2-20	
flux-proof version	270°C / 10s
wash-tight version	260°C / 5s
Relay weight	18g
Packaging unit	tube/20 pcs., box/500 pcs.

Dimensions

Dimensions in mm

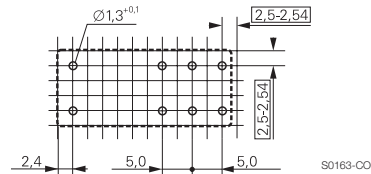


S0273-AB

monostable and REM I (REM II version has 3 coil terminals)

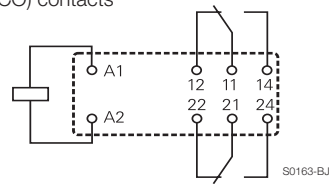
PCB layout / terminal assignment

Bottom view on solder pins
Dimensions in mm



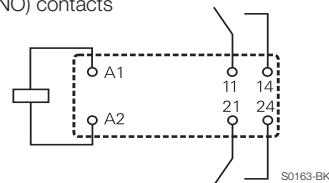
S0163-CO

2 form C (CO) contacts



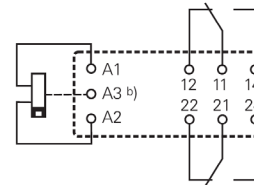
S0163-BJ

2 form A (NO) contacts



S0163-BK

2 form C (CO) contacts (REM II version/ 2 coils)



a) Indicated contact position while or after coil energization with reset voltage.
b) for 2 coil version only

Product code structure

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

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 gold flashed **0** AgCdO² **4** AgNi 90/10

Coil

Coil code: please refer to coil versions table

2) AgCdO contacts are discontinued and replaced with AgNi contacts (see PCN E-18-003947)

Power PCB Relay RPII/2 (Continued)

Product Code	Version	Contacts	Cont. Material	Coil Version	Coil	Part Number				
RP420006	Flux proof	2 form C (CO) contacts	AgCdO	monostable	6VDC	4-1393234-8				
RP420012					12VDC	5-1393234-0				
RP420024					24VDC	5-1393234-1				
RP420048					48VDC	5-1393234-2				
RP421012	Wash tight		AgNi0.15		12VDC	6-1393234-7				
RP421024					24VDC	6-1393234-8				
RP421110					110VDC	7-1393234-1				
RP820012					12VDC	9-1393234-0				
RP820024	Flux proof		AgCdO		24VDC	9-1393234-2				
RP821012					12VDC	1393845-4				
RP821024					24VDC	1393845-5				
RP424005					5VDC	6-1415546-2				
RP424006			AgNi 90/10		6VDC	6-1415546-3				
RP424012					12VDC	6-1415546-4				
RP424024					24VDC	6-1415546-5				
RP424048					48VDC	6-1415546-6				
RP424060					60VDC	6-1415546-7				
RP424110					110VDC	6-1415546-8				
RP424A12					REM I				12VDC	6-1415546-9
RP424A24									24VDC	7-1415546-0
RP424A48					REM II				48VDC	7-1415546-1
RP424F12									12VDC	7-1415546-2
RP424F24	24VDC	7-1415546-3								
RP444012	Wash tight	2 form A (NO) contacts		monostable	12VDC	7-1415546-4				
RP444024		24VDC			7-1415546-5					
RP824006		2 form C (CO) contacts			6VDC	7-1415546-6				
RP824012		12VDC			7-1415546-7					
RP824024		24VDC			7-1415546-8					
RP824048		48VDC			7-1415546-9					
RP824060	60VDC	8-1415546-0								
RP844024		2 form A (NO) contacts			24VDC	6-1415546-1				

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[RP421110](#) [RP438012](#)