

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 (VDE and UL for AgNi 90/10 in preparation)

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 voltage	8 A (UL: 10A)
Limiting making capacity, max 4 s, duty factor 10%	14 A
Breaking capacity max.	2000 VA
Contact material	AgCdO, AgNi 90/10 AgNi0.15 gold flashed
Frequency of operation with / without load	600 / 72000 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			
RP420/421	A (NO)	8A, 250 VAC, resistive, 35°C	100x10 ³
RP420	A (NO)	5A, 250 VAC, resistive, 70°C	30x10 ³
UL508			
RP420	C (CO)	10A, 250 VAC, gen. purp, 70°C	6x10 ³

Coil Data

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

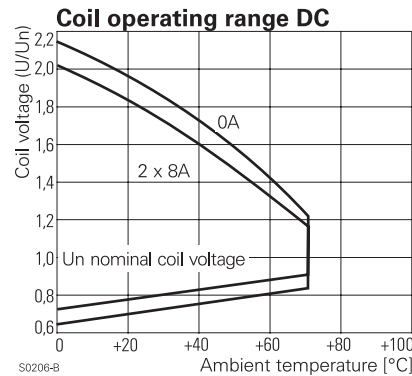
Coil versions, DC coil

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

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

Other coil voltages on request.



Insulation Data

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

Power PCB Relay RPII/2 (Continued)

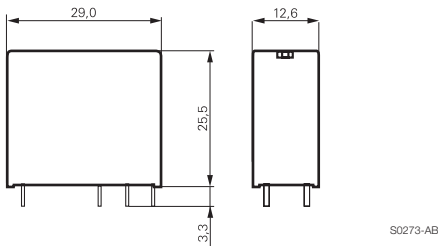
Other Data

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 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.

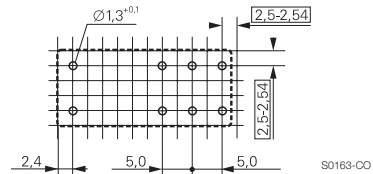
Dimensions

Dimensions in mm

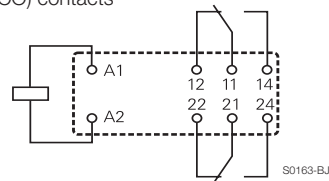


PCB layout / terminal assignment

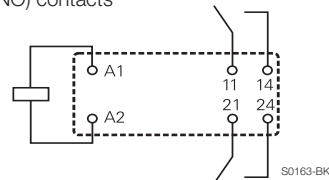
Bottom view on solder pins
Dimensions in mm



2 form C (CO) contacts



2 form A (NO) contacts



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

Coil

Coil code: please refer to coil versions table

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			AgNi0.15		12VDC	6-1393234-7				
RP421024					24VDC	6-1393234-8				
RP421110					110VDC	7-1393234-1				
RP820012					12VDC	9-1393234-0				
RP820024	Wash tight		AgCdO		24VDC	9-1393234-2				
RP821012					12VDC	1393845-4				
RP821024					24VDC	1393845-5				
RP424005	Flux proof		AgNi 90/10		5VDC	6-1415546-2				
RP424006					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		2 form A (NO) contacts		monostable	12VDC	7-1415546-4				
RP444024					24VDC	7-1415546-5				
RP824006		Wash tight			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.