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## Power PCB Relay RPII/1

- 1 pole 8/12/16A, 1 form C (CO) or 1 form A (NO) contact
- 4kV/8mm coil-contact
- Pinning 3.5 or 5mm (8/12A) and 5mm (16A)
- RoHS compliant (Directive 2011/65/EC)

Typical applications

Power supplies, domestic appliances, heating control, installation





F0146-B

App	rova	als
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VDE Cert. No. 40025448, UL E214025 (VDE and UL for AgNi 90/10 in preparation)

Technical data of approved types on request

Contact Data	8 <b>A</b>	12A	16A
Contact arrangement	1 form	C (CO) or 1 form	m A (NO)
Rated voltage		250VAC	
Max. switching voltage		400VAC	
Rated current	8A	12A	16A
Limiting making current	16A	20A	25A
Breaking capacity max.	2000VA	3000VA	4000VA
Contact material	AgNi0.15	AgCdO,	AgCdO,
		AgNi 90/10	AgNi 90/10
Frequency of operation, with/without	600/72000h <sup>-1</sup>		
Operate/release time typ.		8/2ms	
Bounce time typ., form A/form B		2/4ms	

**Contact ratings** 

Туре	Contact	Load	Cycles
IEC61810			
RP310	A (NO)	16A, 250VAC resistive, 35°C	100x10 <sup>3</sup>
RP410/418	A (NO)	12A, 250VAC resistive, 35°C	100x10 <sup>3</sup>
RP410/418	C (CO)	10A, 250VAC resistive, 70°C	100x10 <sup>3</sup>
RP411/418	A (NO)	8A, 250VAC resistive, 35°C	100x10 <sup>3</sup>

Mechanical endurance

DC-coil version: >20x10<sup>6</sup> operations REM/bistable version: >1x10<sup>6</sup> 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 <sup>1)</sup>	500
048	48	33.6	4.8	4400 <sup>1)</sup>	500
060	60	42.0	6.0	6540 <sup>1)</sup>	500
110	110	77.0	11.0	23100 <sup>1)</sup>	500

1) Coil resistance ±15%.

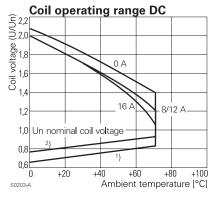
Datasheets and product data is subject to the

terms of the disclaimer and all chapters of

the 'Definitions' section, available at

http://relays.te.com/definitions

All figures are given for coil without pre-energization, at ambient temperature  $+20^{\circ}$ C. Other coil voltages on request.



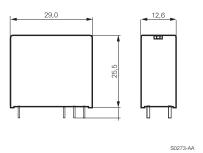
Insulation Data		
Initial dielectric strength		
between open contacts	1000V <sub>rms</sub>	
between contact and coil	4000V <sub>rms</sub>	
Clearance/creepage		
between contact and coil	≥8/8mm	
Material group of insulation parts	IIIa	



### Power PCB Relay RPII/1 (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 RTII - flux proof, RTIII - wash tight IEC 61810 Vibration resistance (functional), form A/form B, 30 to 300Hz 10/2g 100g Shock resistance (destructive) 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

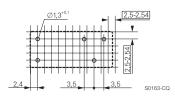
# **Dimensions**Dimensions in mm

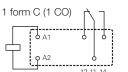


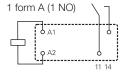
### PCB layout / terminal assignment

8/12A, pinning 3.5 mm

Packaging/unit



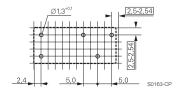


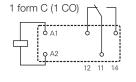


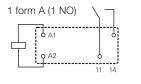
S0163-BH

8/12A, pinning 5 mm

tube/20 pcs., box/500 pcs.

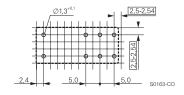


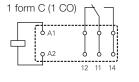


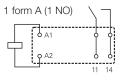


Bottom view on solder pins Dimensions in mm

### 16A, pinning 5 mm







Produc	t code structure			Typical p	roduct code	RP	3	1	0	024
Туре										
R	P Power PCB Relay RPII/1									
Version										
3	16A, flux proof	7	16A, wash tight							
4	8/12A, flux proof	8	8/12A, wash tight							
Contact	arrangement									
1	1 form C contact (1 CO)	3	1 form A contact (1 NO)	5	1 form B co	ntact (1	NC)			
Contact	material and pinning						·			
1	AgNi0.15, 8A, pinning 5mm	0	AgCdO, 12/16A, pinning 5mm	4	AgNi 90/10	, pinning	5mm			
2	AgNi0.15, 8A, pinning 3.5mm	8	AgCdO, 12A, pinning 3.5mm	N	AgNi 90/10	, pinning	3,5mm			
Coil										
С	oil code: please refer to coil versions tab	ole								

S0163-BD

S0163-BF



# Power PCB Relay RPII/1 (Continued)

<b>Product Code</b>	Version	Contacts	Cont. Material	Pinning	Coil Version	Coil	Part Number
RP310012	16A, flux proof	1 form C (CO) contact	AgCdO	5mm	monostable	12VDC	2-1393230-9
RP310024						24VDC	3-1393230-2
RP310048						48VDC	3-1393230-3
RP330012		1 form A (NO) contact				12VDC	4-1393230-7
RP330024						24VDC	4-1393230-9
RP330048						48VDC	5-1393230-1
RP410024	12A, flux proof	1 form C (CO) contact				24VDC	8-1393230-2
RP411024	8A, flux proof		AgNi0.15			24VDC	9-1393230-5
RP412024				3,5mm		24VDC	1-1393231-2
RP418012	12A, flux proof		AgCdO			12VDC	2-1393231-5
RP418024						24VDC	2-1393231-8
RP438012		1 form A (NO) contact				12VDC	5-1393231-0
RP710012	16A, wash tight	1 form C (CO) contact		5mm		12VDC	7-1393231-2
RP710024		` '				24VDC	7-1393231-5
RP730012		1 form A (NO) contact				12VDC	8-1393231-2
RP818012	12A, wash tight	` ,		3,5mm		12VDC	1-1393232-7
RP314005	16A, flux proof	1 form C (CO) contact	AgNi 90/10	5mm		5VDC	8-1415546-4
RP314006	·					6VDC	8-1415546-5
RP314010						10VDC	8-1415546-6
RP314012						12VDC	8-1415546-7
RP314024						24VDC	8-1415546-8
RP314048						48VDC	8-1415546-9
RP314110						110VDC	9-1415546-0
RP314F12					REM II	12VDC	8-1415546-1
RP314F24						24VDC	8-1415546-2
RP334012		1 form A (NO) contact			monostable	12VDC	9-1415546-1
RP334024		,				24VDC	9-1415546-2
RP334048						48VDC	9-1415546-4
RP354012		1 form B (NC) contact				12VDC	9-1415546-5
RP414012	12A, flux proof	1 form C (CO) contact				12VDC	1415546-4
RP414024		, ,				24VDC	1415546-5
RP414A24					REM I	24VDC	9-1415546-6
RP414F24					REM II	24VDC	9-1415546-7
RP434024		1 form A (NO) contact			monostable	24VDC	9-1415546-3
RP714006	16A, wash tight	1 form C (CO) contact				6VDC	9-1415546-8
RP714012		`_ <i>`</i>				12VDC	9-1415546-9
RP714024						24VDC	1415546-1
RP714048						48VDC	1415546-2
RP734012		1 form A (NO) contact				12VDC	1415546-6
RP734020						20VDC	1415546-7
RP734024						24VDC	1415546-8
RP734036						36VDC	1415546-9
RP734A12					REM I	12VDC	1415546-3
RP814012	12A, wash tight	1 form C (CO) contact			monostable	12VDC	1-1415547-0
RP814024						24VDC	1-1415547-1
RP814048						48VDC	1-1415547-2

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