

## 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 2002/95/EC)

Typical applications

Power supplies, domestic appliances, heating control, installation





F0146-B

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VDE REG.-Nr. C894, UL E214025

Technical data of approved types on request

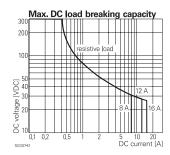
Contact Data	A8	12A	16A			
Contact arrangement	1 form C (CO) or 1 form A (NO)					
Rated voltage		250VAC				
Max. switching voltage		400VAC				
Rated current	8A	12A	16A			
Limiting making current	16A	20A	25A			
Breaking capacity max.	2000VA	3000VA	4000VA			
Contact material	AgNi0.15	AgCdO	AgCdO			
Frequency of operation, with/without	600/72000h-1					
Operate/release time typ.		8/2ms				
Bounce time typ., form A/form B		2/4ms				

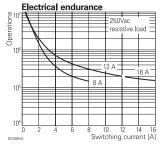
**Contact ratings** 

	.9~		
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

>30x10<sup>6</sup> operations



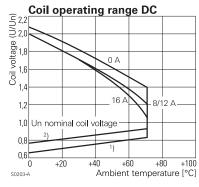


Coil Data		
Coil voltage range	5 to 110VDC	
Operative range, IEC 61810	2	

Coil vers	sions, DC co	il			
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	44001)	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%.

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



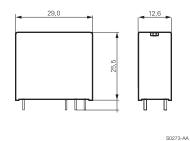
Insulation Data		
Initial dielectric strength		
between open contacts	1000V <sub>rms</sub>	
between contact and coil	4000V <sub>rms</sub>	
Clearance/creepage		
between contact and coil	≥8/8mm	
Material group of insulation parts	Illa	



## 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 IEC 61810 RTII - flux proof, RTIII - wash tight Vibration resistance (functional) form A/form B, 30 to 300Hz 10/2g Shock resistance (destructive) 100g Terminal type PCB-THT Weight 18g Resistance to soldering heat THT, IEC 60068-2-20 270°C/10s flux proof version

# Dimensions Dimensions in mm

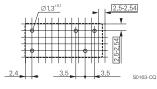


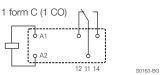
### PCB layout / terminal assignment

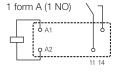
8/12A, pinning 3.5 mm

wash tight version

Packaging/unit





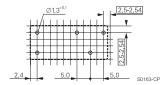


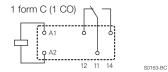
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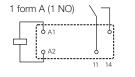
8/12A, pinning 5 mm

260°C/5s

tube/20 pcs., box/500 pcs.

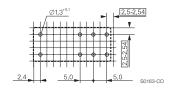


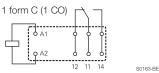


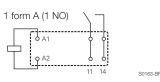


Bottom view on solder pins Dimensions in mm

### 16A, pinning 5 mm







#### 024 Product code structure **RP** 3 0 Typical product code Туре RP Power PCB Relay RPII/1 Version 16A, flux proof 16A, wash tight 8/12A, flux proof 8/12A, wash tight **Contact arrangement** 1 1 form C contact (1 CO) 1 form A contact (1 NO) Contact material and pinning AgNi0.15, 8A, pinning 5mm AgCdO, 12/16A, pinning 5mm AgNi0.15, 8A, pinning 3.5mm AgCdO, 12A, pinning 3.5mm Coil Coil code: please refer to coil versions table

S0163-BD



# Power PCB Relay RPII/1 (Continued)

Product code	Version (	Contact arrangeme	ntContact materia	al Pinning	Coil	Part number
RP310012	16A, flux proof	1 form C (CO) contact	AgCdO	5mm 16A	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		5mm 8/12A	24VDC	8-1393230-2
RP411024	8A, flux proof		AgNi0.15			9-1393230-5
RP412024				3.5mm		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 16A		7-1393231-2
RP710024					24VDC	7-1393231-5
RP730012		1 form A (NO) contact			12VDC	8-1393231-2
RP818012	12A, wash tight			3.5mm		1-1393232-7

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