

## 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

### **Approvals**

VDE REG.-Nr. C894, UL E214024

Technical data of approved types on request

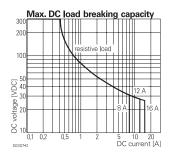
A8	12A	16A			
1 form C (CO) or 1 form A (NO)					
	250VAC				
	400VAC				
8A	12A	16A			
16A	20A	25A			
2000VA	3000VA	4000VA			
AgNi0.15	AgCdO	AgCdO			
out load	600/72000h-1				
8/2ms					
2/4ms					
	1 form 8A 16A 2000VA AgNi0.15	1 form C (CO) or 1 form 250VAC 400VAC 8A 12A 16A 20A 2000VA 3000VA AgNi0.15 AgCdO out load 600/72000h <sup>-1</sup> 8/2ms			

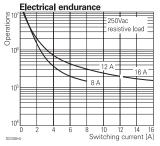
**Contact ratings** 

	. 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



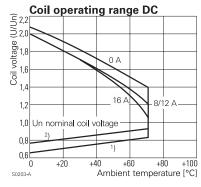


Coil Data		
Coil voltage range	5 to 110VDC	
Operative range, IEC 61810	2	

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.



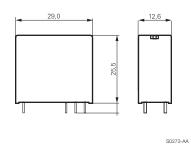
Insulation Data	
Initial dielectric strength	
between open contacts	1000V <sub>rms</sub>
between contact and coil	4000V <sub>rms</sub>
Clearance/creepage	
between contact and coil	≥8/8mm
Material group of insulation parts	IIIa



## 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 IEC 61810 RTII - flux proof, RTIII - wash tight 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

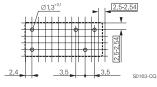
# Dimensions Dimensions in mm



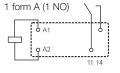
### PCB layout / terminal assignment

8/12A, pinning 3.5 mm

Packaging/unit



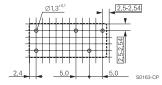
1 form C (1 CO)

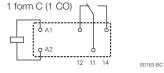


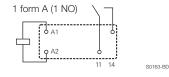
S0163-BH

8/12A, pinning 5 mm

tube/20 pcs., box/500 pcs.

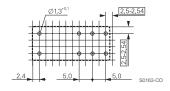


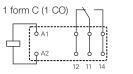


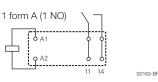


Bottom view on solder pins Dimensions in mm

### 16A, pinning 5 mm







Product	t code structure			Typical product code	RP	3	1	0	024
Туре	P Power PCB Relay RPII/1								
Version	1 TOWERT OBTICIALY FILTING					J			
3	16A, flux proof	7	16A, wash tight						
4		8	8/12A, wash tight						
Contact a	arrangement								
1	1 form C contact (1 CO)	3	1 form A contact (1 NO)						
Contact i	material and pinning								
1	AgNi0.15, 8A, pinning 5mm	0	AgCdO, 12/16A, pinning 5mm						
2	AgNi0.15, 8A, pinning 3.5mm	8	AgCdO, 12A, pinning 3.5mm						
Coil	-		•						
Co	oil code: please refer to coil versions table	9							

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## Power PCB Relay RPII/1 (Continued)

Product code	Version C	Contact arrangemen	ntContact materia	l 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