

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





Approvals

VDE Cert. No. 40025448, UL E214025

Technical data of approved types on request

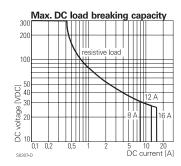
Contact Data	A8	12A	16A	
Contact arrangement	1 form C (CO) or 1 form A (NO)			
Rated voltage	250VAC			
Max. switching voltage	400VAC			
Rated current	8A	12A	16A	
Limiting making current	16A	20A	25A	
Breaking capacity max.	2000VA	3000VA	4000VA	
Contact material	AgNi0.15	AgCdO	AgCdO	
Frequency of operation,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

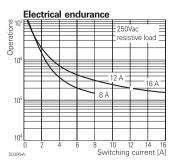
Contact ratings

	.9~		
Туре	Contact	Load	Cycles
IEC61810			
RP310	A (NO)	16A, 250VAC resistive, 35°C	100x10 ³
RP410/418	A (NO)	12A, 250VAC resistive, 35°C	100x10 ³
RP410/418	C (CO)	10A, 250VAC resistive, 70°C	100x10 ³
RP411/418	A (NO)	8A, 250VAC resistive, 35°C	100x10 ³

Mechanical endurance

>30x10⁶ operations



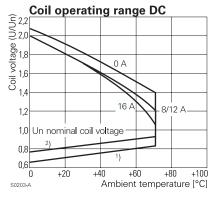


Coil Data		
Coil voltage range	5 to 110VDC	
Operative range, IEC 61810	2	

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 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 ±15%.

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



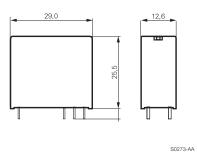
Insulation Data	
Initial dielectric strength	
between open contacts	1000V _{rms}
between contact and coil	4000V _{rms}
Clearance/creepage	
between contact and coil	≥8/8mm
Material group of insulation parts	IIIa



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) PCB-THT Terminal type Weight 18g Resistance to soldering heat THT, IEC 60068-2-20 flux proof version 270°C/10s wash tight version 260°C/5s

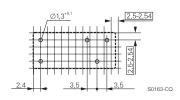
DimensionsDimensions in mm

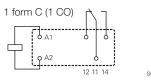


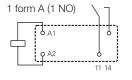
PCB layout / terminal assignment

8/12A, pinning 3.5 mm

Packaging/unit



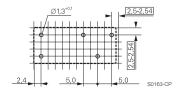


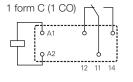


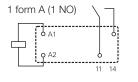
S0163-BH

8/12A, pinning 5 mm

tube/20 pcs., box/500 pcs.

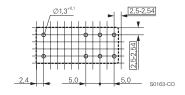


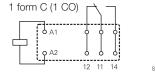


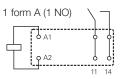


Bottom view on solder pins Dimensions in mm

16A, pinning 5 mm







Product code structure 024 Typical product code **RP** 3 0 Type 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 AgCdO, 12/16A, pinning 5mm AgNi0.15, 8A, pinning 5mm AgNi0.15, 8A, pinning 3.5mm AgCdO, 12A, pinning 3.5mm Coil Coil code: please refer to coil versions table

S0163-BD

S0163-BF



Power PCB Relay RPII/1 (Continued)

Product code	Version	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

the 'Definitions' section, available at

http://relays.te.com/definitions

Mouser Electronics

Authorized Distributor

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TE Connectivity:

RP418012 RP412024 RP412010