

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, cULus E214024

Technical data of approved types on request

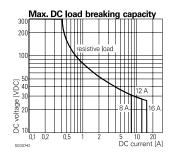
Contact Data	8A	12A	16A
Contact arrangement	1 form	C (CO) or 1 form	n A (NO)
Rated voltage		250VAC	
Max. switching voltage		400VAC	
Rated current	8A	12A	16A
Limiting making current	16A	20A	25A
Breaking capacity max.	2000VA	3000VA	4000VA
Contact material	AgNi0.15	AgCdO	AgCdO
Frequency of operation, with/without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

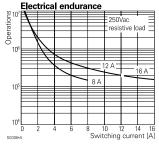
Contact ratings

O O I I I I I I I I I I I I I I I I I I	.90		
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



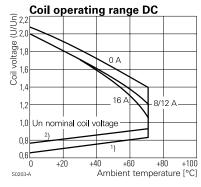


Coil Data	
Coil voltage range	5 to 110VDC
Operative range, IEC 61810	2

Coil 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 ¹⁾	500				
048	48	33.6	4.8	44001)	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.



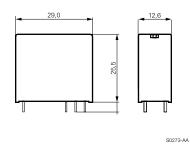
Insulation Data	
Initial dielectric strength	
between open contacts	1000V _{rms}
between contact and coil	4000V _{rms}
Clearance/creepage	
between contact and coil	≥8/8mm
Material group of insulation parts	Illa



Power PCB Relay RPII/1 (Continued)

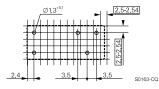
Other Data Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at electronics.com/customersupport/rohssupportcenter www.tyco Ambient temperature -40 to +70°C Category of environmental protection IEC 61810 RTII - flux proof, RTIII - wash 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 flux proof version 270°C/10s wash tight version 260°C/5s Packaging/unit tube/20 pcs., box/500 pcs.

DimensionsDimensions in mm



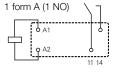
PCB layout / terminal assignment

8/12A, pinning 3.5 mm

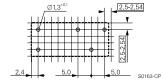


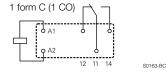
1 form C (1 CO)

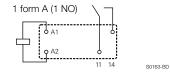
S0163-BH



8/12A, pinning 5 mm

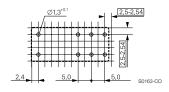


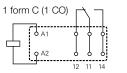


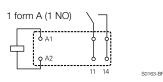


Bottom view on solder pins Dimensions in mm

16A, pinning 5 mm







Product	code structure		Typical pro	oduct code	RP	3	1	0	024
Туре									
RF	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 a	rrangement						-		
1	1 form C contact (1 CO)	3	1 form A contact (1 NO)						
Contact n	naterial 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	il code: please refer to coil versions tal	ole							

S0163-BE

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

Datasheets, product data, 'Definitions' section, application notes and all specifications

are subject to change.

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