

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





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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	8A	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. 20		3000VA	4000VA		
Contact material	AgNi0.15	AgCdO,	AgCdO,		
		AgNi 90/10	AgNi 90/10		
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

Type	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

DC-coil version:	>20x10° operations
REM/bistable version:	>1x10 ⁶ operations

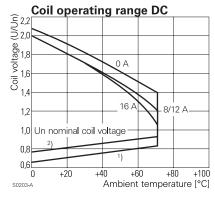
Coil Data	
Coil voltage range	5 to 110VDC
Operative range, IEC 61810	2

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	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 $+20^{\circ}$ C. Other coil voltages on request.



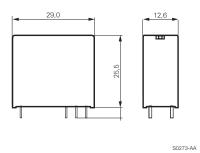
Insulation Data		
Initial dielectric strength		
between open contacts	$1000V_{rms}$	
between contact and coil	$4000V_{rms}$	
Clearance/creepage		
between contact and coil	≥8/8mm	
Material group of insulation parts	IIIa	



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) 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

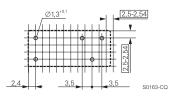
DimensionsDimensions in mm

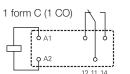


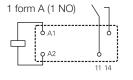
PCB layout / terminal assignment

8/12A, pinning 3.5 mm

Packaging/unit







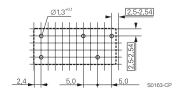
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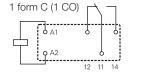
AgNi0.15, 8A, pinning 3.5mm

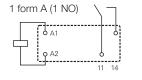
Coil code: please refer to coil versions table

8/12A, pinning 5 mm

tube/20 pcs., box/500 pcs.

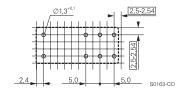


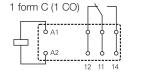


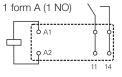


Bottom view on solder pins Dimensions in mm

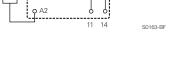
16A, pinning 5 mm







AgNi 90/10, pinning 3,5mm



024 Product code structure 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) 1 form B contact (1 NC) Contact material and pinning AgCdO, 12/16A, pinning 5mm AgNi0.15, 8A, pinning 5mm AgNi 90/10, pinning 5mm

AgCdO, 12A, pinning 3.5mm

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Coil



Power PCB Relay RPII/1 (Continued)

Product Code	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	Tori, Traori agric	1 101111 0 (00) 00111.001		0.111		24VDC	7-1393231-5
RP730012		1 form A (NO) contact				12VDC	8-1393231-2
RP818012	12A, wash tight	1 10111171 (110) 00111401		3,5mm		12VDC	1-1393232-7
RP314005	16A, flux proof	1 form C (CO) contact	AgNi 90/10	5mm		5VDC	8-1415546-4
RP314006	Tort, har proof	1 101111 0 (00) 00111401	7 (g) (1 007 10	CITIIII		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					1 (214)	24VDC	8-1415546-2
RP334012		1 form A (NO) contact			monostable	12VDC	9-1415546-1
RP334024		1 10111171 (140) 00111401			monostable	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	12A, 11ux p1001	1 Ioiiii O (OO) contact				24VDC	1415546-5
RP414A24					REM I	24VDC	9-1415546-6
RP414F24					REM II	24VDC 24VDC	9-1415546-7
RP434024		1 form A (NO) contact			monostable	24VDC	9-1415546-3
RP714006	16A, wash tight	1 form C (CO) contact			THOHOStable	6VDC	9-1415546-8
RP714012	TOA, Wash tight	1 Ioiiii C (CC) Contact				12VDC	9-1415546-9
RP714024						24VDC	1415546-1
RP714048						48VDC	1415546-2
RP734012		1 form A (NO) contact				12VDC	1415546-6
RP734020		I IOIIII A (INO) COIIIact				20VDC	1415546-7
RP734024						24VDC	1415546-8
RP734024 RP734036						36VDC	1415546-9
RP734A12					REM I	12VDC	1415546-3
RP814012	12A, wash tight	1 form C (CO) contact			monostable	12VDC	1-1415547-0
RP814012	12A, wash light	r ioitii o (oo) contact			THOHOStable	24VDC	1-1415547-0
RP814048						48VDC	1-1415547-1
NF014U40						48VDC	1-1410047-2

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