

**Power PCB Relay RPII/2 1.5 mm Contact Gap**

- 2 pole 8 A, 2 NO contacts, 1.5 mm contact gap each
- DC-coil
- 4 kv/8 mm coil contact
- Creepage distance complies with IEC 60950 requirement



**Applications**

Domestic appliances, UPS's, Solar Inverter



**Approvals**

VDE Cert. No. 40025448, UL E214025  
Technical data of approved types on request

**Contact Data**

Contact configuration	2 NO
Contact set	single contact
Type of interruption	micro disconnection
Rated current	8 A
Rated voltage / max.switching voltage AC	240/400 VAC
Maximum breaking capacity AC	2000 VA
Limiting making capacity, max 4 s, duty factor 10%	15 A
Contact material	AgSnO2
Mechanical endurance	> 5 x 10 <sup>9</sup> cycles
Rated frequency of operation with / without load	6 / 1200 min-1

**Contact ratings**

Load	Cycles
8 A, 250 VAC, cosφ=1, 360/h, 55°C, EN61810-1	10x10 <sup>3</sup>
3 A, 250 VAC, cosφ=1, 360/h, 55°C, EN61810-1	100x10 <sup>3</sup>
8 A, 250 VAC, general purpose, 40°C, UL508	6x10 <sup>3</sup>

**Coil Data**

Coil voltage range	5 to 110VDC
Coil power DC coil	typ 800 mW
Operative range, IEC 61810	2

**Coil versions, DC coil**

Type	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Maximum voltage VDC	Coil resistance Ω±10% <sup>1)</sup>	Rated coil power mW
RP920145	5	3.8	0.4	7.7	32±10%	780
RP920123	12	9.0	1.0	18.5	180±10%	800
RP920139	12	9.0	1.0	18.5	180±10%	800
RP920124	24	18.0	1.9	37.5	740±10%	780
RP920138	110	82.5	8.8	169.0	15125±15%	800

All figures are given for coil without pre-energization, at ambient temperature +23°C.  
Other coil voltages on request.

**Insulation Data**

Initial dielectric strength	
coil-contact circuit	5000 V <sub>rms</sub>
open contact circuit	2500V <sub>rms</sub>
adjacent contact circuits	3000V <sub>rms</sub>
Clearance/creepage	
coil-contact circuit	7/8mm
between solder pins 11/21 and 14/24	> 5 mm
adjacent contact circuits	≥3 / 3mm
Contact gap open contact	>1.5mm
Material group of insulation parts	≥ IIIa
Tracking index of relay base	PTI 250V
Insulation to IEC 61810-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	micro disconnection
adjacent contact circuits	basic
Rated insulation voltage	250V
Pollution degree	2
Rated voltage system	240V
Overvoltage category	III

**Other Data**

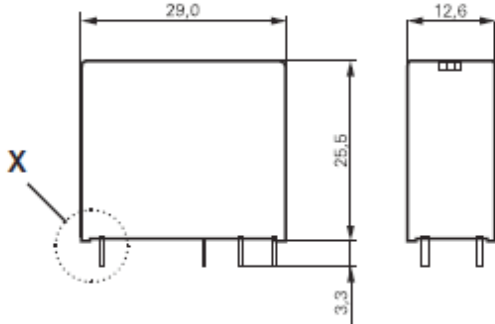
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.te.com/customer-support/rohssupportcenter](http://www.te.com/customer-support/rohssupportcenter)

Ambient temperature	-40 to +55°C (UL: 40°C)	
Operate-/ release time DC coil	typ 13/ 3ms	
Bounce time NO contact	typ 5ms	
Shock resistance (destruction)	100g	
Category of protection	RP 920139	RTII - flux proof
others:	RTIII - wash tight	
Resistance to soldering heat flux-proof version	270°C / 10s	
wash-tight version	260°C / 5s	
Relay weight	18g	
Packaging unit	tube/20 pcs., box/500 pcs.	

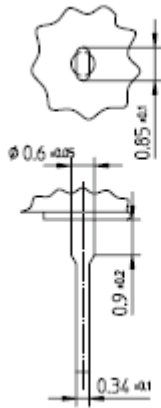
**Power PCB Relay RPII/2 1.5 mm Contact Gap** (Continued)

**Dimensions**

Dimensions in mm

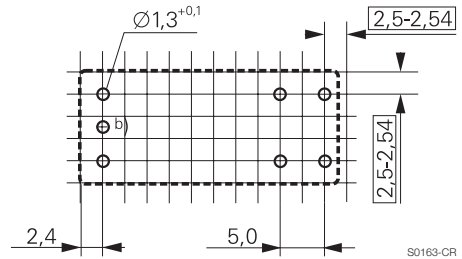


Detail X for RP920145 only

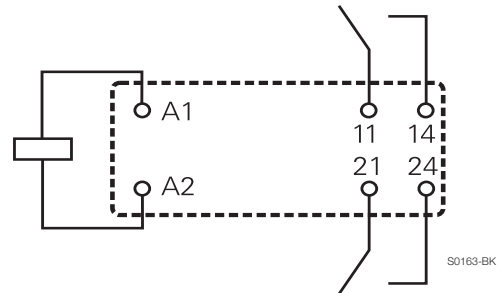


**PCB layout / terminal assignment**

Bottom view on solder pins



b) not present at this type



Product code	Version	Contacts	Cont. material	Coil	Coil	Part number
RP920123	wash tight	2 NO contacts	AgSnO <sub>2</sub>	DC-coil	12 VDC	9-1393235-1
RP920124		1.5mm cont. gap			24 VDC	9-1393235-2
RP920138					110 VDC	9-1393235-9
RP920139	flux proof				12 VDC	3-1419136-3
RP920145	wash tight				5 VDC	1-1415538-4