

Miniature Power PCB RYII & RYII Reflow Solderable

- 1 pole 8A, 1 form C (CO) or 1 form A (NO) or 1 form B (NC) contact
- Low component height 12.3mm
- 5kV/8mm coil-contact
- Reinforced insulation (protection class II)
- Pinnings: 3.2mm and 5mm
- **■** Reflow-solderable version
- Especially suitable for resistive and inductive loads on form A (NO) and form B (NC) contacts
- Plastic materials according to IEC 60335-1 (domestic appliances)

Typical applications heating control, interface technology, domestic appliances, timers, temperature control



E0142-E

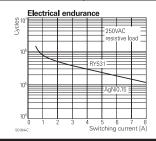


Approvals
VDE Cert. No. 40009639, UL E214025
Technical data of approved types on request

Contact Data	
Contact arrangement	1 form C (CO) or
	1 form A (NO) or
	1 form B (NC)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	8A
Breaking capacity max.	2000VA
Contact material	AgNi0.15, AgSnO ₂
Frequency of operation, with/without load	6/1200min ⁻¹
Operate/release time max.	9/5ms
Bounce time max., form A/form B	6/10ms

Contact ratings		
Type Contact	Load	Cycles
IEC61810		
RY531 A (NO)	8A, 250VAC, 70°C	100x10 ³
RY211 A (NO)	8A, 250VAC, 75°C	100x10 ³
RY211 A (NO)	8A, 250VAC, 85°C	50x10 ³
RY211 B (NC)	8A, 250VAC, 70°C	50x10 ³
UL61810-1 (UL508)		
RY211 A/B (NO/NC)	10A, 250VAC, general purpose, 70°C	$30x10^3$
RY211 A (NO)	1/2hp, 240VAC, 85°C	$30x10^3$
RY211 B (NC)	B300, 70°C	6x10 ³
RY211 A (NO)	8A, 250VAC, 85°C	100x10 ³
RY211 A (NO)	8A, 24VDC, 85°C	$30x10^3$
RY211 A (NO)	B300, 85°C	$30x10^3$
RY211 A (NO)	C300, 105°C	$30x10^3$
RY211 A (NO)	1/3 hp, 250VAC, 85°C	$30x10^3$
RY211 A (NO)	1/4 hp, 120VAC, 70°C	30x10 ³
EN60730-1		
RY211 A/B (NO/NC)	6(4)A, 250VAC, 85°C	100x10 ³
RY211 A (NO)	8(4)A, 250VAC, 75°C	50x10 ³
RY211 A (NO)	8(4)A, 250VAC, 85°C	$30x10^3$
RY211 A (NO)	2(2)A, 250VAC, -40 / +105°C	100x10 ³
RY211 C (CO)	2(2)A, 250VAC, -40 / +105°C	30x10 ³
Mechanical endurance, I	DC coil 30x10 ⁶ operations	

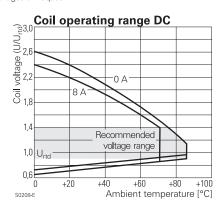
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50195-D						Ď			nt [A]



Coil Data	
Coil voltage range	5 to 60VDC
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	$\Omega \pm 10\%$	mW		
005	5	3.5	0.5	112	223		
006	6	4.2	0.6	162	222		
009	9	6.3	0.9	320	253		
012	12	8.4	1.2	627	230		
024	24	16.8	2.4	2350	245		
048	48	33.6	4.8	9391	245		
060	60	42.0	6.0	14000	257		

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



Insulation Data		
Initial dielectric strength		
between open contacts	1000V _{rms}	
between contact and coil	5000V _{rms}	
Clearance/creepage		
between contact and coil	≥8/8mm	
Material group of insulation parts	Illa	
Tracking index of relay base	PTI250	
reflow-solderable version	PTI175	



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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 +85°C at 6A

Category of environmental protection

IEC 61810 RTII - flux proof RTIII - wash tight1)

Vibration resistance (functional), form A (NO)/form B (NC) 20/5g Shock resistance (functional) form A (NO)/form B (NC) 20/5g

Shock resistance (destructive) 100g Terminal type PCB-THT. PCB-THR

Weight 8g Resistance to soldering heat THT

IEC 60068-2-20 RTII: 270°C/10s RTIII: 260°C/5s

Resistance to soldering heat THR

IEC 60068-2-58

250°C, no infrared heating allowed Packaging/unit

standard version tube/20 pcs., box/500 pcs. reel/280 pcs. reflow version

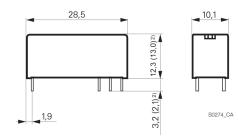
box/1120 pcs. (4 reels)

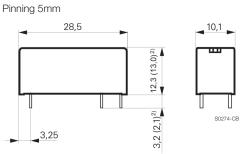
1) not available as reflow-solderable version

Accessories

Accessories Miniature PCB Relay RY For details see datasheet

Pinning 3.2mm Dimensions



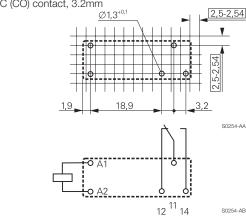


2) Values in brakets are valid for reflow-solderable version

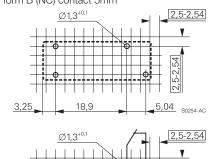
PCB layout / terminal assignment

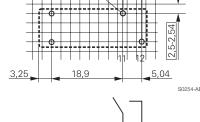
Bottom view on solder pins

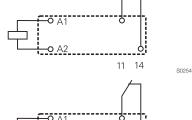
1 form C (CO) contact, 3.2mm

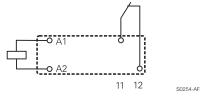


1 form A (NO), 1 form B (NC) contact 5mm





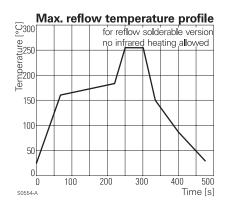




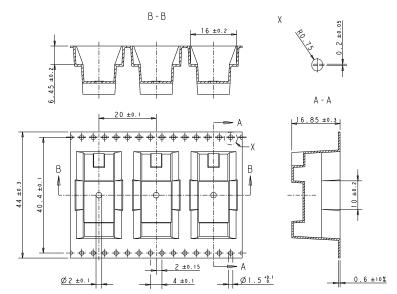


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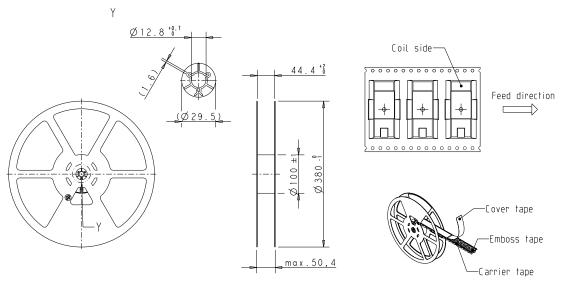
Soldering profile for reflow-solderable version

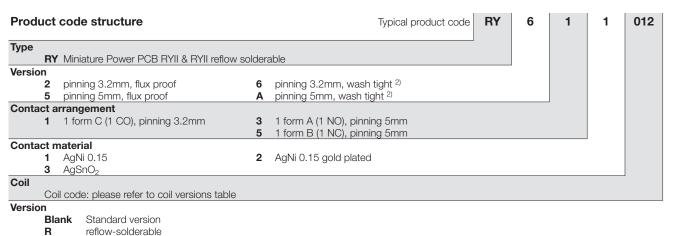


Tape dimensions



Reel dimensions





2) not available as reflow-solderable version