

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 60335-1¹⁾ (domestic appliances)

Typical applications

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

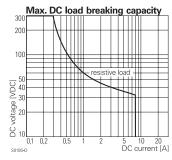
1) not available as reflow-solderable version

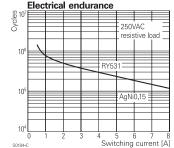
Approvals

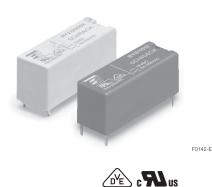
VDE REG.-Nr. 5358, UL E214025 Technical data of approved types on request

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

Contac	t ratings			
Туре	Contact	Load	Cycles	
IEC618	10			
RY531	A (NO)	8A, 250VAC, 70°C	100x10 ³	
RY211	A (NO)	8A, 250VAC, 70°C	75x10 ³	
RY211	B (NC)	8A, 250VAC, 70°C	50x10 ³	
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	A/B (NO/NC)	B300, 70°C	6x10 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	100x10 ³	
Mechanical endurance, DC coil 30x10 ⁶ operations				





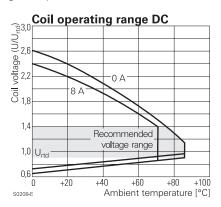


Coil Data

Coil voltage range	5 to 60VDC
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	Ω±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

moulation 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

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change. 1



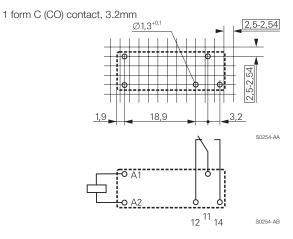
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Other Data

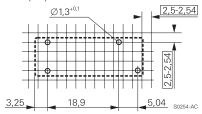
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content					
refer to the Product Compliance Support Center a					
www.te.com/customersupport/rohssupportcente					
Ambient temperature	-40 to +70°C				
	+85°C at 6A				
Category of environmental protection	1				
IEC 61810	RTII - flux proof				
	RTIII - wash tight ¹⁾				
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.				
reflow version	reel/280 pcs.				
	box/1120 pcs. (4 reels)				
1) not available as reflow-solderable version					
Accessories					
For details see datasheet	Accessories Miniature PCB Relay RY				

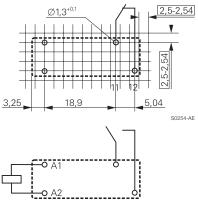
PCB layout / terminal assignment

Bottom view on solder pins



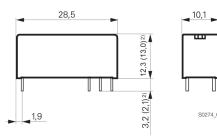
1 form A (NO), 1 form B (NC) contact 5mm







Dimensions

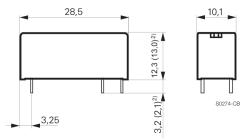


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S0274_CA

Pinning 5mm

Pinning 3.2mm



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

11 14 S0254-AD **O** A1 **—o** A2 0 11 12

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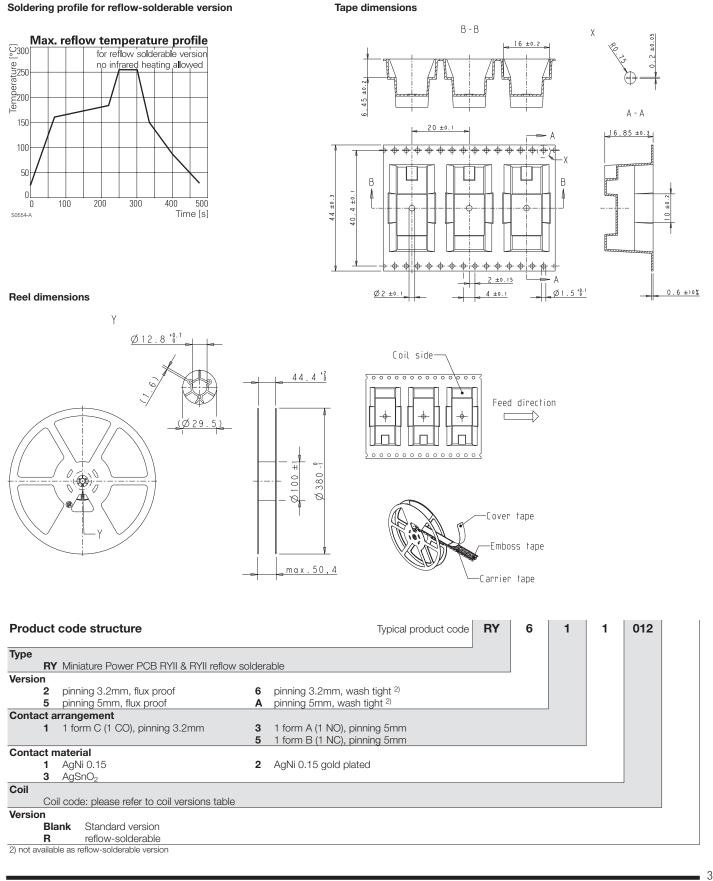
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S0254-AF



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Product code	Version	Contacts	Contact material	Coil	Part number
RY211005	Pinning 3.2 mm	1 form C,	AgNi 0.15	5VDC	4-1393224-2
RY211012	flux proof	1 CO contact		12VDC	4-1393224-6
RY211024				24VDC	4-1393224-9
RY211048				48VDC	5-1393224-1
RY212005			AgNi 0.15	5VDC	5-1393224-2
RY212012			gold plated	12VDC	5-1393224-5
RY212024			Ŭ .	24VDC	5-1393224-8
RY212048				48VDC	5-1393224-9
RY213005			AgSnO ₂	5VDC	6-1393224-0
RY213012				12VDC	6-1393224-1
RY213024				24VDC	6-1393224-2
RY213048				48VDC	6-1393224-3
RY531005	Pinning 5 mm	1 form A,	AqNi 0.15	5VDC	7-1393224-6
RY531012	flux proof	1 NO contact	Ŭ	12VDC	7-1393224-9
RY531024				24VDC	8-1393224-2
RY531048				48VDC	8-1393224-3
RY532012			AqNi 0.15	12VDC	8-1393224-4
RY532024			gold plated	24VDC	8-1393224-5
RY533012			AgSnO ₂	12VDC	8-1393224-8
RY533024			5-2	24VDC	8-1393224-9
RY533048				48VDC	9-1393224-0
RY611005	Pinning 3.2 mm	1 form C.	AqNi 0.15	5VDC	1-1393225-7
RY611012	wash tight	1 CO contact	3 4 4	12VDC	1-1393225-9
RY611024	, see a s			24VDC	2-1393225-1
RY611048				48VDC	2-1393225-2
RY612005			AqNi 0.15	5VDC	2-1393225-3
RY612012			gold plated	12VDC	2-1393225-6
RY612024				24VDC	2-1393225-9
RY612048				48VDC	3-1393225-0
RY613005			AgSnO ₂	5VDC	5-1419136-2
RY613012			52	12VDC	3-1393225-1
RY613024				24VDC	3-1393225-3
RY613048				48VDC	3-1393225-4
RY631024		1 form A,	AqNi 0.15	24VDC	4-1415400-1
RYA31005	Pinning 5 mm	1 NO contact		5VDC	1393224-7
RYA31012	wash tight			12VDC	1393224-9
RYA31024				24VDC	1-1393224-2
RYA31048				48VDC	1-1393224-3
RYA32005			AgNi 0.15	5VDC	1-1393224-4
RYA32012			gold plated	12VDC	1-1393224-6
RYA32024				24VDC	1-1393224-8
RYA33005			AgSnO ₂	5VDC	1-1393224-9
RYA33024				24VDC	2-1393224-1

Product code	Version	Contacts	Contact material	Coil	Part number
RY211005R	pinning 3.2mm	1 form C,	AgNi 0.15	5VDC	1-1956170-2
RY211012R	flux proof	1 CO contact		12VDC	1-1956170-6
RY211024R	reflow solderable			24VDC	1956164-1
RY531005R	pinning 5.0mm	1 form A,		5VDC	1-1956171-1
RY531012R	flux proof	1 NO contact		12VDC	1-1956171-4
RY531024R	reflow solderable			24VDC	1-1956171-7

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