

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



F0142-E



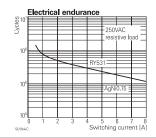
Approvals
VDE Cert. No. 40009639, UL E214025
Technical data of approved types on request

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 100x10³ RY211 A (NO) 8A, 250VAC, 85°C 100x10³ RY211 A (NO) 8A, 250VAC, 85°C 50x10³ RY211 B (NC) 8A, 250VAC, 70°C 50x10³ UL61810-1 (UL508) RY211 A/B (NO/NC) 10A, 250VAC, general purpose, 70°C 30x10³ RY211 A (NO) 1/2hp, 240VAC, 85°C 30x10³ RY211 B (NC) B300, 70°C 6x10³ RY211 A (NO) 8A, 250VAC, 85°C 100x10³ RY211 A (NO) 8A, 24VDC, 85°C 30x10³ RY211 A (NO) B300, 85°C 30x10³ RY211 A (NO) 1/3 hp, 250VAC, 85°C 30x10³ RY211 A (NO) 1/4 hp, 120VAC, 70°C 30x10³ EN60730-1 RY211 A (NO) 8(4)A, 250VAC, 85°C 100x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C	Contac	t ratings		
RY531 A (NO) 8A, 250VAC, 70°C 100x10³ RY211 A (NO) 8A, 250VAC, 75°C 100x10³ RY211 A (NO) 8A, 250VAC, 85°C 50x10³ RY211 B (NC) 8A, 250VAC, 70°C 50x10³ UL6181∪-1 (UL508) RY211 A/B (NO/NC) 10A, 250VAC, general purpose, 70°C 30x10³ RY211 A (NO) 1/2hp, 240VAC, 85°C 30x10³ RY211 B (NC) B300, 70°C 6x10³ RY211 A (NO) 8A, 250VAC, 85°C 100x10³ RY211 A (NO) 8A, 24VDC, 85°C 30x10³ RY211 A (NO) B300, 85°C 30x10³ RY211 A (NO) B300, 85°C 30x10³ RY211 A (NO) C300, 105°C 30x10³ RY211 A (NO) 1/3 hp, 250VAC, 85°C 30x10³ RY211 A (NO) 1/4 hp, 120VAC, 70°C 30x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 50x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C <	Type	Contact	Load	Cycles
RY211 A (NO) 8A, 250VAC, 75°C 100x10³ RY211 A (NO) 8A, 250VAC, 85°C 50x10³ RY211 B (NC) 8A, 250VAC, 70°C 50x10³ UL61810-1 (UL508) RY211 A (NO) 10A, 250VAC, general purpose, 70°C 30x10³ RY211 A (NO) 1/2hp, 240VAC, 85°C 30x10³ RY211 B (NC) B300, 70°C 6x10³ RY211 A (NO) 8A, 250VAC, 85°C 100x10³ RY211 A (NO) 8A, 24VDC, 85°C 30x10³ RY211 A (NO) B300, 85°C 30x10³ RY211 A (NO) 1/3 hp, 250VAC, 85°C 30x10³ RY211 A (NO) 1/4 hp, 120VAC, 70°C 30x10³ EN60730-1 EN60730-1 RY211 A (NO) 8(4)A, 250VAC, 85°C 100x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³	IEC 618	10		
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RY211 B (NC) 8A, 250VAC, 70°C 50x10³ UL61810-1 (UL508) RY211 A/B (NO/NC) 10A, 250VAC, general purpose, 70°C 30x10³ RY211 A (NO) 1/2hp, 240VAC, 85°C 30x10³ RY211 B (NC) B300, 70°C 6x10³ RY211 A (NO) 8A, 250VAC, 85°C 100x10³ RY211 A (NO) 8A, 24VDC, 85°C 30x10³ RY211 A (NO) B300, 85°C 30x10³ RY211 A (NO) C300, 105°C 30x10³ RY211 A (NO) 1/3 hp, 250VAC, 85°C 30x10³ RY211 A (NO) 1/4 hp, 120VAC, 70°C 30x10³ EN60730-1 RY211 A (NO) 8(4)A, 250VAC, 85°C 100x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 50x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 8(4)A, 250VAC, 40/+105°C 100x10³ RY211 A (NO) </td <td>RY211</td> <td>A (NO)</td> <td>8A, 250VAC, 75°C</td> <td>100x10³</td>	RY211	A (NO)	8A, 250VAC, 75°C	100x10 ³
UL61810-1 (UL508) RY211 A/B (NO/NC) 10A, 250VAC, general purpose, 70°C 30x10³ RY211 A (NO) 1/2hp, 240VAC, 85°C 30x10³ RY211 B (NC) B300, 70°C 6x10³ RY211 A (NO) 8A, 250VAC, 85°C 100x10³ RY211 A (NO) 8A, 24VDC, 85°C 30x10³ RY211 A (NO) B300, 85°C 30x10³ RY211 A (NO) C300, 105°C 30x10³ RY211 A (NO) 1/3 hp, 250VAC, 85°C 30x10³ RY211 A (NO) 1/4 hp, 120VAC, 70°C 30x10³ EN60730-1 RY211 A (NO) 8(4)A, 250VAC, 85°C 100x10³ RY211 A (NO) 8(4)A, 250VAC, 75°C 50x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 2(2)A, 250VAC, -40 / +105°C 30x10³ RY211 C (CO) 2(2)A, 250VAC, -40 / +105°C 30x10³	RY211	A (NO)	8A, 250VAC, 85°C	50x10 ³
RY211 A/B (NO/NC) 10A, 250VAC, general purpose, 70°C 30x10³ RY211 A (NO) 1/2hp, 240VAC, 85°C 30x10³ RY211 B (NC) B300, 70°C 6x10³ RY211 A (NO) 8A, 250VAC, 85°C 100x10³ RY211 A (NO) 8A, 24VDC, 85°C 30x10³ RY211 A (NO) B300, 85°C 30x10³ RY211 A (NO) C300, 105°C 30x10³ RY211 A (NO) 1/3 hp, 250VAC, 85°C 30x10³ RY211 A (NO) 1/4 hp, 120VAC, 70°C 30x10³ EN60730-1 RY211 A (NO) 8(4)A, 250VAC, 85°C 100x10³ RY211 A (NO) 8(4)A, 250VAC, 75°C 50x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 2(2)A, 250VAC, 40 / +105°C 30x10³ RY211 C (CO) 2(2)A, 250VAC, -40 / +105°C 30x10³	RY211	B (NC)	8A, 250VAC, 70°C	50x10 ³
RY211 A (NO) 1/2hp, 240VAC, 85°C 30x10³ RY211 B (NC) B300, 70°C 6x10³ RY211 A (NO) 8A, 250VAC, 85°C 100x10³ RY211 A (NO) 8A, 24VDC, 85°C 30x10³ RY211 A (NO) B300, 85°C 30x10³ RY211 A (NO) C300, 105°C 30x10³ RY211 A (NO) 1/3 hp, 250VAC, 85°C 30x10³ RY211 A (NO) 1/4 hp, 120VAC, 70°C 30x10³ EN60730-1 RY211 A/B (NO/NC) 6(4)A, 250VAC, 85°C 100x10³ RY211 A/ (NO) 8(4)A, 250VAC, 75°C 50x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 2(2)A, 250VAC, -40 / +105°C 100x10³ RY211 A (NO) 2(2)A, 250VAC, -40 / +105°C 30x10³	UL6181	0-1 (UL508)		
RY211 B (NC) B300, 70°C 6x10³ RY211 A (NO) 8A, 250VAC, 85°C 100x10³ RY211 A (NO) 8A, 24VDC, 85°C 30x10³ RY211 A (NO) B300, 85°C 30x10³ RY211 A (NO) C300, 105°C 30x10³ RY211 A (NO) 1/3 hp, 250VAC, 85°C 30x10³ RY211 A (NO) 1/4 hp, 120VAC, 70°C 30x10³ EN60730-1 RY211 A (NO) 6(4)A, 250VAC, 85°C 100x10³ RY211 A (NO) 8(4)A, 250VAC, 75°C 50x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 2(2)A, 250VAC, -40 / +105°C 100x10³ RY211 C (CO) 2(2)A, 250VAC, -40 / +105°C 30x10³	RY211	A/B (NO/NC)	10A, 250VAC, general purpose, 70°C	30x10 ³
RY211 A (NO) 8A, 250VAC, 85°C 100x10³ RY211 A (NO) 8A, 24VDC, 85°C 30x10³ RY211 A (NO) B300, 85°C 30x10³ RY211 A (NO) C300, 105°C 30x10³ RY211 A (NO) 1/3 hp, 250VAC, 85°C 30x10³ RY211 A (NO) 1/4 hp, 120VAC, 70°C 30x10³ EN60730-1 RY211 A/B (NO/NC) 6(4)A, 250VAC, 85°C 100x10³ RY211 A (NO) 8(4)A, 250VAC, 75°C 50x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 2(2)A, 250VAC, -40 / +105°C 100x10³ RY211 C (CO) 2(2)A, 250VAC, -40 / +105°C 30x10³	RY211	A (NO)	1/2hp, 240VAC, 85°C	$30x10^3$
RY211 A (NO) 8A, 24VDC, 85°C 30x10³ RY211 A (NO) B300, 85°C 30x10³ RY211 A (NO) C300, 105°C 30x10³ RY211 A (NO) 1/3 hp, 250VAC, 85°C 30x10³ RY211 A (NO) 1/4 hp, 120VAC, 70°C 30x10³ EN60730-1 RY211 A/B (NO/NC) 6(4)A, 250VAC, 85°C 100x10³ RY211 A (NO) 8(4)A, 250VAC, 75°C 50x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 2(2)A, 250VAC, -40 / +105°C 100x10³ RY211 C (CO) 2(2)A, 250VAC, -40 / +105°C 30x10³	RY211	B (NC)	B300, 70°C	6x10 ³
RY211 A (NO) B300, 85°C 30x10³ RY211 A (NO) C300, 105°C 30x10³ RY211 A (NO) 1/3 hp, 250VAC, 85°C 30x10³ RY211 A (NO) 1/4 hp, 120VAC, 70°C 30x10³ EN60730-1 RY211 A/B (NO/NC) 6(4)A, 250VAC, 85°C 100x10³ RY211 A (NO) 8(4)A, 250VAC, 75°C 50x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 2(2)A, 250VAC, -40 / +105°C 100x10³ RY211 C (CO) 2(2)A, 250VAC, -40 / +105°C 30x10³	RY211	A (NO)	8A, 250VAC, 85°C	100x10 ³
RY211 A (NO) C300, 105°C 30x10³ RY211 A (NO) 1/3 hp, 250VAC, 85°C 30x10³ RY211 A (NO) 1/4 hp, 120VAC, 70°C 30x10³ EN60730-1 RY211 A/B (NO/NC) 6(4)A, 250VAC, 85°C 100x10³ RY211 A (NO) 8(4)A, 250VAC, 75°C 50x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 2(2)A, 250VAC, -40 / +105°C 100x10³ RY211 C (CO) 2(2)A, 250VAC, -40 / +105°C 30x10³	RY211	A (NO)	8A, 24VDC, 85°C	30x10 ³
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RY211 A (NO) 1/4 hp, 120VAC, 70°C 30x10³ EN60730-1 RY211 A/B (NO/NC) 6(4)A, 250VAC, 85°C 100x10³ RY211 A (NO) 8(4)A, 250VAC, 75°C 50x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 2(2)A, 250VAC, -40 / +105°C 100x10³ RY211 C (CO) 2(2)A, 250VAC, -40 / +105°C 30x10³	RY211	A (NO)	C300, 105°C	30x10 ³
EN60730-1 RY211 A/B (NO/NC) 6(4)A, 250VAC, 85°C 100x10³ RY211 A (NO) 8(4)A, 250VAC, 75°C 50x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 2(2)A, 250VAC, -40 / +105°C 100x10³ RY211 C (CO) 2(2)A, 250VAC, -40 / +105°C 30x10³	RY211	A (NO)	1/3 hp, 250VAC, 85°C	30x10 ³
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RY211 A (NO) 8(4)A, 250VAC, 75°C 50x10³ RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 2(2)A, 250VAC, -40 / +105°C 100x10³ RY211 C (CO) 2(2)A, 250VAC, -40 / +105°C 30x10³	EN6073	30-1	·	
RY211 A (NO) 8(4)A, 250VAC, 85°C 30x10³ RY211 A (NO) 2(2)A, 250VAC, -40 / +105°C 100x10³ RY211 C (CO) 2(2)A, 250VAC, -40 / +105°C 30x10³	RY211	A/B (NO/NC)	6(4)A, 250VAC, 85°C	100x10 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	RY211	A (NO)	8(4)A, 250VAC, 75°C	50x10 ³
RY211 C (CO) 2(2)A, 250VAC, -40 / +105°C 30x10 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, DC coil 30x10 ⁶ operations	Mechan	ical endurance,	DC coil 30x10 ⁶ operations	

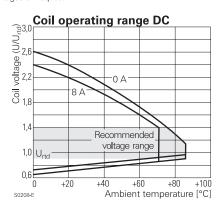
M	ax. [OC Id	oad I	oreak	ing	ca	paci	ity
300		۱II				Ш		
200	+	H	₩		Н	₩		+
100		ΙN				Ш		
100	=	H	VIII.		ш	₩		+
	_		N			ш		
	+	Н	НΝ	resisti	ve loa	ıd.+	#	+
□ 50	-	ш	11111	$\overline{}$	ш	ш		\top
ā 40 —	-	$^{\rm +++}$	****		$\overline{}$	##		\top
≥ 30	+	₩		_	₩	m	-	+
98						Ш		
₾ 20	+	н	+++++	_	н	+++	#	+
9						Ш		
DC voltage [VDC]						Ш		
	0.2	Щ	щ		щ	Ш	10	20
0,1	0,2	0,5)	2	5		10 urrer	20



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	$\Omega \pm 10\%$	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	IIIa	
Tracking index of relay base	PTI250	
reflow-solderable version	PTI175	



Miniature Power PCB RYII & RYII Reflow Solderable (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 +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 8g

Weight 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)

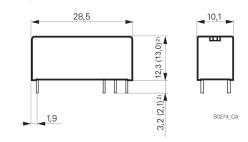
1) not available as reflow-solderable version

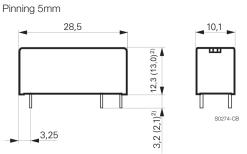
Accessories

Dimensions

Accessories Miniature PCB Relay RY For details see datasheet

Pinning 3.2mm



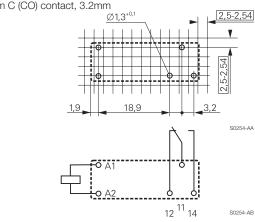


2) Values in brakets are valid for reflow-solderable version

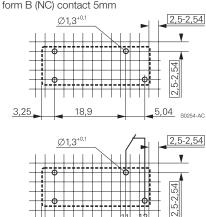
PCB layout / terminal assignment

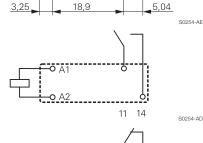
Bottom view on solder pins

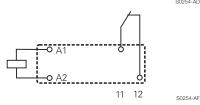
1 form C (CO) contact, 3.2mm



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



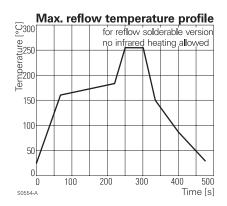




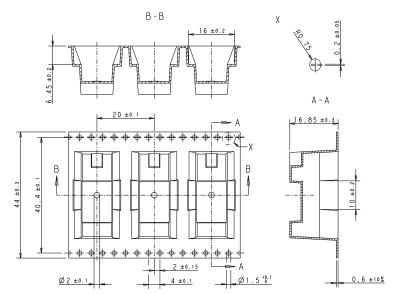


Miniature Power PCB RYII & RYII Reflow Solderable (Continued)

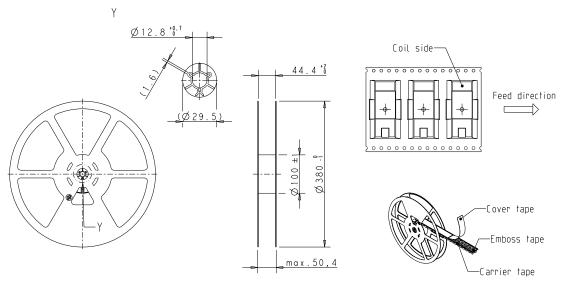
Soldering profile for reflow-solderable version

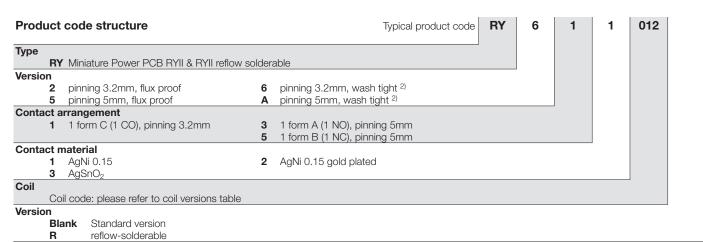


Tape dimensions



Reel dimensions





2) not available as reflow-solderable version



Miniature Power PCB RYII & RYII Reflow Solderable (Continued)

Product code	Version	Contacts	Contact material	Coil	Part Number
RY211005	Pinning 3.2 mm	1 form C,	AgNi 0.15	5VDC	4-1393224-2
RY211006				6VDC	4-1393224-3
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
RY212006			gold plated	6VDC	5-1393224-3
RY212012				12VDC	5-1393224-5
RY212024				24VDC	5-1393224-8
RY212048				48VDC	5-1393224-9
RY213005			AgSnO ₂	5VDC	6-1393224-0
RY213006			,	6VDC	9-1393224-0
RY213012				12VDC	6-1393224-1
RY213024				24VDC	6-1393224-2
RY213048				48VDC	6-1393224-3
RY531005	Pinning 5 mm	1 form A.	AgNi 0.15	5VDC	7-1393224-6
RY531006	flux proof	1 NO contact	<u> </u>	6VDC	7-1393224-7
RY531012	- I			12VDC	7-1393224-9
RY531024				24VDC	8-1393224-2
RY531048				48VDC	8-1393224-3
RY532012			AgNi 0.15	12VDC	8-1393224-4
RY532024			gold plated	24VDC	8-1393224-5
RY533006			AgSnO ₂	6VDC	8-1393224-6
RY533012			, igono ₂	12VDC	8-1393224-8
RY533024			-	24VDC	8-1393224-9
RY533048				48VDC	9-1393224-0
RY611005	Pinning 3.2 mm	1 form C,	AgNi 0.15	5VDC	1-1393225-7
RY611006	wash tight	1 CO contact	7.gr (1 0.10	6VDC	1-1393225-8
RY611012	waan ugn	1 00 domade		12VDC	1-1393225-9
RY611024				24VDC	2-1393225-1
RY611048				48VDC	2-1393225-2
RY612005			AgNi 0.15	5VDC	2-1393225-3
RY612006			gold plated	6VDC	2-1393225-4
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			7.931132	12VDC	3-1393225-1
RY613024				24VDC	3-1393225-3
RY613048				48VDC	3-1393225-4
RY631024		1 form A,	AgNi 0.15	24VDC	4-1415400-1
RYA31005	Pinning 5 mm	1 NO contact	Ag(4) 0.10	5VDC	1393224-7
RYA31006	wash tight	1 NO contact		6VDC	1393224-8
RYA31012	wasii tigiit			12VDC	1393224-9
RYA31024				24VDC	1-1393224-2
RYA31048				48VDC	1-1393224-3
RYA32005			AgNi 0.15	5VDC	1-1393224-4
RYA32006			gold plated	6VDC	8-1393224-8
RYA32012			gold plated	12VDC	1-1393224-6
RYA32024				24VDC	1-1393224-8
RYA33005			AgSnO ₂	5VDC	1-1393224-9
RYA33024			Ag01102	24VDC	2-1393224-1
N 1/400024				24100	2-1090224-1

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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