

# Miniature Power PCB RY II & RY II reflow-solderable

- 1 pole 8 A, 1 CO or 1 NO or 1 NC contact
- Low component height 12.3 mm
- 5 kV / 8 mm coil-contact
- Reinforced insulation (protection class II)
- Pinnings: 3.2 and 5 mm
- reflow-solderable version
- Sockets with PCB-type or screw-type terminals
- Especially suitable for resistive and inductive loads on NO and NC contacts
- Plastic materials according to IEC60335-1 (domestic appliances) (not at reflow-solderable version)
- RoHS compliant (Directive 2002/95/EC) as per product date code 0403

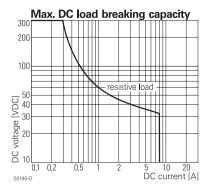
Applications: heating control, interface technology, domestic appliances, timers, temperature control

## Approvals

REG.-Nr. 5358, CRUIS E214025 Technical data of approved types on request Contact data Contact configuration 1 CO or 1NO or 1NC Contact set single contact Type of interruption micro disconnection Rated current 8 A 250/400 VAC Rated voltage / max. switching voltage AC Maximum breaking capacity AC 2000 VA AgNi0,15, AgSnO<sub>2</sub>, AgCdO 30x10<sup>6</sup> cycles Contact material Mechanical endurance Rated frequency of operation with / without load 6 / 1200 min-

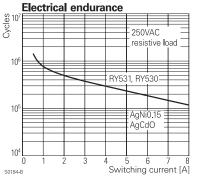


F0142-C



### Contact ratings

Contact ratings		
Туре	Load	Cycles
RY**1***	NO, 8 A, 250 VAC, resistive, 70°C	1x10 <sup>5</sup>
RY**1***	NC, 8 A, 250 VAC, resistive, 70°C	5x10 <sup>4</sup>
RY**(0,1,2)***	8 A, 30 VDC, UL 508	3 x10 <sup>4</sup>
RY**(0,1,2)***	0,28 A, 250 VDC, UL 508	3 x10 <sup>4</sup>
RY**(0,1,2)***	1/2 HP, 240 VDC, UL 508	
RY**(0,1,2)***	1/4 HP, 120 VDC, UL 508	
RY**(0)***	8 A, 415 VAC, resistive, UL 508	6 x10 <sup>3</sup>
RY**(0,1,2)***	Pilot duty - B300, UL 508	6000
RY*** ***	CO, 8 A, 250 VAC, resistive, 70°C	5x10 <sup>3</sup>
RY**1 ***	6(4)A, 250 VAC, 85°C, EN60730	1x10 <sup>5</sup>



Coil data	
Rated coil voltage range DC coil	560 VDC
Coil power DC coil	typ. 220 mW
Operative range	2

### Coil versions. DC-coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ohm	mW
005	5	3,5	0,5	112±10%	223
006	6	4,2	0,6	162±10%	222
009	9	6,3	0,9	320±10%	253
012	12	8,4	1,2	627±10%	230
024	24	16,8	2,4	2350±10%	245
048	48	33,6	4,8	9391±10%	245
060	60	42,0	6,0	14000±10%	257

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

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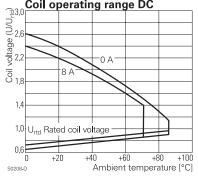
Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

Coil operating range DC

processing information

only to be used together with the 'Definitions' at

schrackrelays.com in the



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Specifications subject to change.

'Schrack' section.

Downloaded from Elcodis.com electronic components distributor

## Miniature Power PCB RY II & RY II reflow-solderable (Continued)

compliant as per product date code 0403

V-0 > 850 °C\*

> 750 °C\*\*

-40...+70°C 85°C at 6A

typ. 7 / 3 ms typ. 2.5 / 4.5 ms 20 / 5 g

20 / 5 g

100 g RTII-flux\_proof, RTIII- wash tight\*\*

pcb

any

≥ 0 mm 270°C / 10 s

260°C/5s

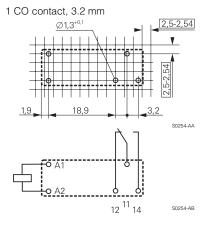
8 g

20 / 500 pcs

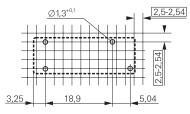
Accessoires RYII

Insulation	CO co	ontact	NO contact		
Dielectric strength coil-contact circuit	5000 V <sub>eff</sub>				
open contact circuit	1000 V <sub>eff</sub>				
Clearance / creepage coil-contact circuit	≥ 8 / 8 mm				
Material group of insulation parts	Illa				
Tracking index of relay base		PTI250, PTI 175*			
Insulation to IEC 60664-1					
Type of insulation coil-contact circuit	reinforced				
open contact circuit		functional			
Rated insulation voltage	250	250 V 250 V			
Pollution degree	3	2	3		
Rated voltage system	230 V	400 V	230 / 400 V		
Overvoltage category	111		111		

#### **PCB layout / terminal assignment** Bottom view on solder pins



1 NO, 1 NC contact 5 mm



S0254-AC

### Accessoires

Relay weight

Packaging unit

Other data

RoHS - Directive 2002/95/EC

Ambient temperature range

Bounce time NO / NC contact

Shock resistance (destruction)

Minimum mounting distance

Category of protection

Mounting position

Mounting

Ambient temperature max. Operate- / release time

GWT to IEC 60335-1

Flammability class according to UL94 GWFI to IEC 60335-1

Vibration resistance (function) NO / NC contact

Shock resistance (function) NO / NC contact

Soldering heat resistance flux proof version

wash tight version

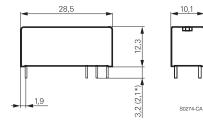
For technical details see datasheet

\* reflow-solderable version

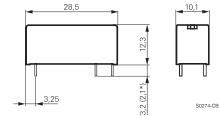
\*\* not as reflow-solderable version

Dimensions





Pinning 5 mm



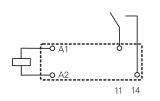
<u>Ø1.3"0.1</u> <u>2.5-2.54</u> <u>7</u> <u>8.9</u> <u>5.04</u>

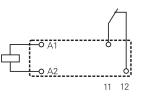


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S0254-AF

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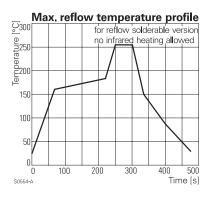


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# Miniature Power PCB RY II & RY II reflow-solderable (Continued)

Soldering profile for reflow-solderable version



## Product key

Гуре			
/ersion			
2 pinning 3.2 mm, flux proof	6 pinning 3.2 mm, wash tight		
<b>5</b> pinning 5 mm, flux proof	A pinning 5 mm, wash tight		
Contact configuration	· · · ·		
1 1 ČO contact, pinning 3.2 mm	<b>3</b> 1 NO contact, pinning 5 mm		
	5 1 NC contact, pinning 5 mm		
Contact material			
0 AgCdO	2 AgNi 0.15 gold plated		
1 AgNi 0.15	3 AgSnO <sub>2</sub>		
Coil			

Coil code: please refer to coil versions table

Other types on request

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R Y

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