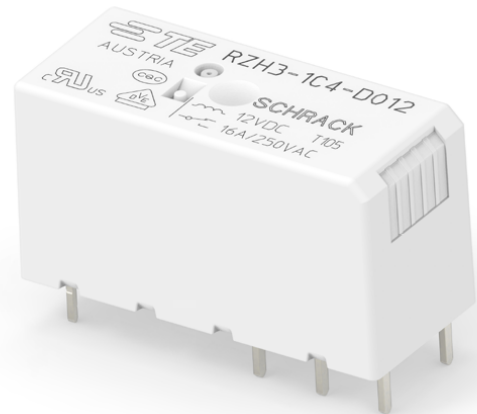


# SCHRACK POWER PCB RELAY RZH 105°C 16A

## GENERAL PURPOSE PCB RELAYS

### INTRODUCTION

The SCHRACK Power PCB Relay RZH 105°C 16A is a versatile and robust relay designed for general-purpose applications. Featuring a single pole with 16A capacity and reinforced insulation, it ensures reliable performance even at high ambient temperatures of up to 105°C. This relay's low-profile package, high dielectric strength, and wide range of coil voltages make it ideal for industrial automation, HVAC systems, and high-temperature control applications such as ovens and cooking plates.



### FEATURES

- 1 pole 16A, 1 form C (CO) or 1 form A (NO) contact
- DC coil 400mW
- 5kV/10mm coil-contact, reinforced insulation
- Ambient temperature 105°C
- Product in accordance to IEC 60335-1

### APPLICATIONS

- Oven control
- Cooking plate control

### APPROVALS

- VDE Cert. No. 40023970
- cULus E214025
- CQC 12002066685



Technical data of approved types on request

# SCHRACK POWER PCB RELAY RZH 105°C 16A

GENERAL PURPOSE RELAYS PCB RELAYS

## CONTACT DATA

Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	16A
Limiting making current, form A contact, max. 4s, duty factor 10 %	30A
Breaking capacity max.	4000VA
Contact material	AgNi 90/10 or AgSnO <sub>2</sub>
Frequency of operation, with/without load	360/72000h <sup>-1</sup>
Operate/release time max.	8/6ms
Bounce time max., form A/form B	4/6ms

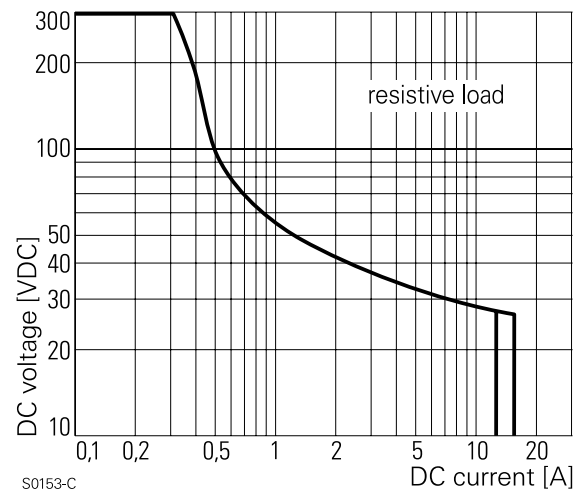
## CONTACT RATINGS

Type	Contact	Load	Cycles
<b>Standard version</b>			
<b>IEC 61810</b>			
RZH3-1C4	A/C (NO/NC)	16 A, 250 VAC, 105°C	10x10 <sup>3</sup>
RZH3-1A3	A (NO)	16 A, 250 VAC, 85°C	40x10 <sup>3</sup>
RZH3-1A3	A (NO)	12 A, 250 VAC, 105°C	20x 10 <sup>3</sup>
RZH . -1A4	A (NO)	10 A, 250 VAC, 105°C	150x10 <sup>3</sup>
RZHH-1A4	A (NO)	12 A, 250 VAC, 85°C	150x10 <sup>3</sup>
RZHH-1A4	A (NO)	18 A, 250 VAC, 85°C	30x10 <sup>3</sup>
RZHH-1A4	A (NO)	12 A, 250 VAC, 105°C	100x10 <sup>3</sup>
RZHH-1A4	A (NO)	10 A, 250 VAC, 105°C	300x10 <sup>3</sup>
RZHH-1A4	A (NO)	16 A, 250 VAC, 105°C	30x10 <sup>3</sup>
RZH . -1A4	A (NO)	16 A, 250 VAC, 85°C	50x10 <sup>3</sup>
<b>UL 61810-1 (former UL 508)</b>			
RZH3-1A4	A (NO)	10 A, 250 VAC, 105°C	150x10 <sup>3</sup>
RZH3-1C4	A/C (NO/NC)	16 A, 250 VAC, 105°C	10x10 <sup>3</sup>
RZHH-1A4	A (NO)	10 A, 250 VAC, 105°C	300x10 <sup>3</sup>
RZHH-1A4	A (NO)	12 A, 250 VAC, 105°C	150x10 <sup>3</sup>
RZHH-1A4	A (NO)	12 A, 250 VAC, 85°C	150x10 <sup>3</sup>
RZHH-1A4	A (NO)	16 A, 250 VAC, 105°C	30x10 <sup>3</sup>
RZHH-1A4	A (NO)	16 A, 250 VAC, 85°C	50x10 <sup>3</sup>

## CONTACT RATINGS

Type	Contact	Load	Cycles
<b>RZ reinforced flux proof version</b>			
<b>IEC 61810</b>			
RZHH-1A4-D...-R	A (NO)	16A, 250VAC, 105°C	30x10 <sup>3</sup>
<b>IEC 61810 (former UL 508)</b>			
RZHH-1A4-D...-R	A (NO)	16A, 277VAC, GP, 105°C	100x10 <sup>3</sup>
Mechanical endurance		>10x10 <sup>6</sup> operations	

## MAX. DC LOAD BREAKING CAPACITY



# SCHRACK POWER PCB RELAY RZH 105°C 16A

## GENERAL PURPOSE RELAYS PCB RELAYS

### COIL DATA

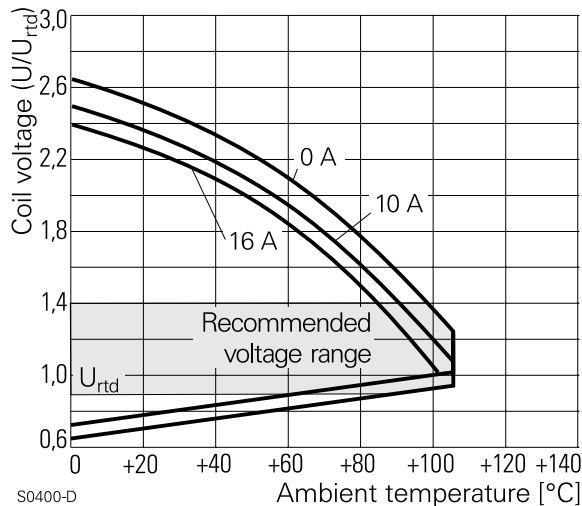
Coil voltage range	3 to 48VDC
Operative range, IEC 61810	90...110% $U_{RTD}$
Coil insulation system according UL1446	class F

### COIL VERSIONS, DC COIL

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power mW
D003	3	2.1	0.3	22	410
D005	5	3.5	0.5	60	420
D006	6	4.2	0.6	90	400
D009	9	6.3	0.9	200	400
D012	12	8.4	1.2	360	400
D024	24	16.8	2.4	1440	400
D048	48	33.6	4.8	5730	400

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

### COIL OPERATING RANGE DC



### INSULATION DATA

Initial dielectric strength	
between open contacts	1000V <sub>rms</sub>
between contact and coil	5000V <sub>rms</sub>
Clearance/creepage	
between contact and coil	≥10/10mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI 250V

### OTHER DATA

Material compliance	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at <a href="http://www.te.com/customer-support/rohssupportcenter">www.te.com/customer-support/rohssupportcenter</a>
Resistance to heat and fire standard cover version	according EN 60335-1, par.30
Ambient temperature	-40 to 105°C
Category of environmental protection	
IEC 61810	RTII - flux proof
Vibration resistance (functional), 30 to 500Hz	
closing form A contact	>15g
opening form A contact	>20g
opening form B contact	>5g
Shock resistance (destructive)	100g
Terminal type	PCB-THT
Mounting distance	≥2mm
Weight	10g
Resistance to soldering heat THT	
IEC 60068-2-20	270°C/10s <sup>1)</sup>
Packaging/unit	tube/20 pcs., box/500 pcs.
suffix-00001/-R0001 & -00002/-R0002	See details C-1558100

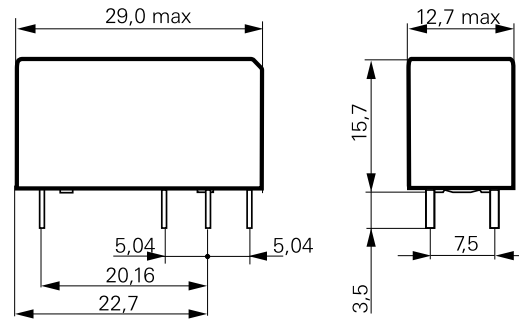
1) The use of foaming flux is not permitted.

# SCHRACK POWER PCB RELAY RZH 105°C 16A

GENERAL PURPOSE RELAYS PCB RELAYS

## DIMENSIONS (Unit:mm)

16A, pinning 5mm

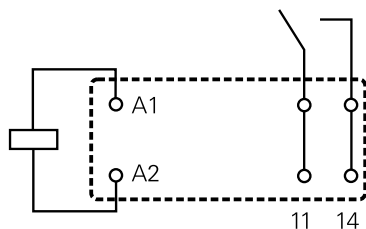


## PCB LAYOUT / TERMINAL ASSIGNMENT

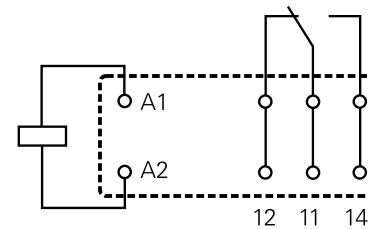
Bottom view on solder pins

16A, pinning 5mm

1 form A (NO) contact



1 form C (CO) contact



Recommended pcb hole for manual mounting:  $\varnothing 1.3\text{mm}$  For automated mounting please ask for detailed drawing.

## PRODUCT CODE STRUCTURE

**Typical product code**  
RZ H 3 -1A 4 -D012 -R

### Type

<b>RZ</b>	Power PCB Relay RZ
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### Version

<b>H</b>	Hot version 105°C
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### Version

<b>3</b>	double pinning 5mm, 16A (1 form A or 1 form C)
<b>H</b>	double pinning 5mm, 16A High performance (1 form A)

### Contact Configuration

<b>1A</b>	1 form A (1 NO) contact
<b>1C</b>	1 form C (1 CO) contact

### Cover version

<b>Blank</b>	standard (hot stamped)
<b>-R</b>	reinforced flux proof (epoxy) and Plug-In capable (only AgNi contact versions)

### Coil version

<b>Coil code</b>	please refer to coil versions table
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### Contact material

<b>4</b>	AgNi 90/10
<b>3</b>	AgSnO <sub>2</sub>

## PRODUCT INFORMATION

Product code	Version	Contacts	Contact material	Coll	Part Number	
					Austria	China
RZH3-1C4-D012	16A, 105°C pinning 5mm	1 form C (CO)	AgNi 90/10	12VDC	<a href="#">2-1415899-5</a>	-
RZH3-1C4-D024				24VDC	<a href="#">2-1415899-6</a>	-
RZH3-1A4-D009				9VDC	<a href="#">2-1415899-7</a>	-
RZH3-1A4-D009-R0001		1 form A (NO)		9VDC	-	<a href="#">2-2071452-6</a>
RZH3-1A4-D012				12VDC	<a href="#">2-1415899-8</a>	-
RZH3-1A4-D012-R0001				12VDC	-	<a href="#">2-2071452-7</a>
RZH3-1A4-D024				24VDC	<a href="#">2-1415899-9</a>	-
RZH3-1A4-D024-R0001				24VDC	-	<a href="#">2-2071452-8</a>
RZHH-1A4-D009				16A, 105°C pinning 5mm High performance	9VDC	<a href="#">6-1415899-2</a>
RZHH-1A4-D009-R0001	9VDC	<a href="#">2071452-8</a>	-			
RZHH-1A4-D012	12VDC	<a href="#">6-1415899-6</a>	-			
RZHH-1A4-D012-R0001	12VDC	-	<a href="#">2071452-7</a>			
RZHH-1A4-D024	24VDC	<a href="#">6-1415899-7</a>	-			
RZHH-1A4-D024-R0001	24VDC	-	<a href="#">3-2071452-2</a>			
RZH3-1A3-D012	16A, 105°C, pinning 5mm		AgSnO2	12VDC	<a href="#">9-1415899-0</a>	-

### Notes:

- 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.

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