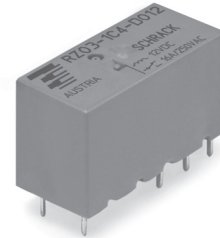


**Power PCB Relay RZH 105°C 16A**

- 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



Typical applications  
Oven control, cooking plate control



F0305-A

**Approvals**

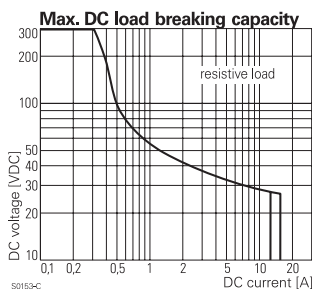
VDE Cert. No. 40023970, cULus E214025, CQC  
Technical data of approved types on request

**Contact Data**

Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	16A <sup>1)</sup>
Limiting making current, form A contact, max. 4 s, 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>IEC 61810</b>			
RZH3-1C4	A/C (NO/NC)	16 A, 250 VAC, resistive, 105°C	10x10 <sup>3</sup>
RZH3-1A3	A (NO)	16 A, 250 VAC, resistive, 85°C	40x10 <sup>3</sup>
RZH3-1A3	A (NO)	12 A, 250 VAC, resistive, 105°C	20x10 <sup>3</sup>
RZH . -1A4	A (NO)	10 A, 250 VAC, resistive, 105°C	150x10 <sup>3</sup>
RZHH-1A4	A (NO)	12 A, 250 VAC, resistive, 85°C	150x10 <sup>3</sup>
RZHH-1A4	A (NO)	18 A, 250 VAC, resistive, 85°C	30x10 <sup>3</sup>
RZHH-1A4	A (NO)	12 A, 250 VAC, resistive, 105°C	100x10 <sup>3</sup>
RZHH-1A4	A (NO)	10 A, 250 VAC, resistive, 105°C	300x10 <sup>3</sup>
RZHH-1A4	A (NO)	16 A, 250 VAC, resistive, 105°C	30x10 <sup>3</sup>
RZH . -1A4	A (NO)	16 A, 250 VAC, resistive, 85°C	50x10 <sup>3</sup>
<b>UL 508</b>			
RZH3-1A4	A (NO)	10 A, 250 VAC, resistive, 105°C	150x10 <sup>3</sup>
RZH3-1C4	A/C (NO/NC)	16 A, 250 VAC, resistive, 105°C	10x10 <sup>3</sup>
RZHH-1A4	A (NO)	10 A, 250 VAC, resistive, 105°C	300x10 <sup>3</sup>
RZHH-1A4	A (NO)	12 A, 250 VAC, resistive, 105°C	150x10 <sup>3</sup>
RZHH-1A4	A (NO)	12 A, 250 VAC, resistive, 85°C	150x10 <sup>3</sup>
RZHH-1A4	A (NO)	16 A, 250 VAC, resistive, 105°C	30x10 <sup>3</sup>
RZHH-1A4	A (NO)	16 A, 250 VAC, resistive, 85°C	50x10 <sup>3</sup>



**Contact Data (continued)**

Mechanical endurance >10x10<sup>6</sup> operations  
1) Continuous thermal load >10A at 105°C requires reduction of coil power to 49% of rated power after 100ms.

**Coil Data**

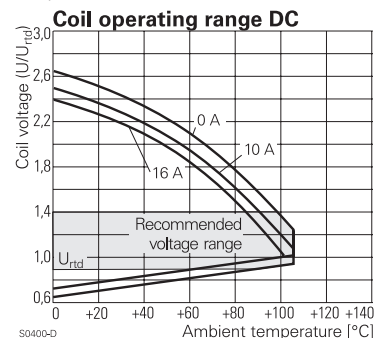
Coil voltage range	3 to 48VDC
Operative range, IEC 61810	90...110% U <sub>RTD</sub>
Coil insulation system according UL1446	class F

**Coil versions, DC coil**

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW <sup>1)</sup>
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

1) Continuous thermal load > 10 A at 105°C requires reduction of coil power to 49% of rated power after 100 ms.

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 <sub>rms</sub>
between contact and coil	5000V <sub>rms</sub>
Clearance/creepage	
between contact and coil	≥10/10mm
Material group of insulation parts	IIla
Tracking index of relay base	PTI250V

**Power PCB Relay RZH 105°C 16A** (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](http://www.te.com/customersupport/rohssupportcenter)

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>2</sup>	
Packaging/unit	tube/20 pcs., box/500 pcs.	

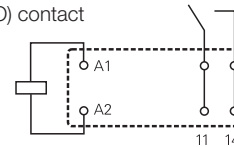
2) The use of foaming flux is not permitted.

**PCB layout / terminal assignment**

Bottom view on solder pins

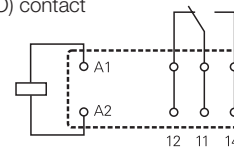
16A, pinning 5mm

1 form A (NO) contact



S0163-BF

1 form C (CO) contact



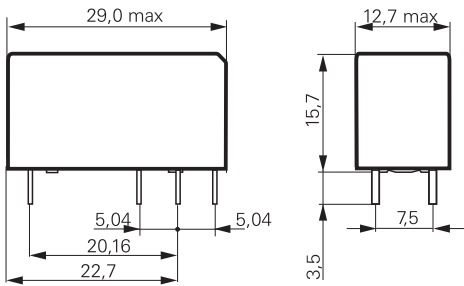
S0163-BE

Recommended pcb hole for manual mounting:  
Ø1.3mm

For automated mounting please ask for detailed drawing.

**Dimensions**

16 A, pinning 5 mm



S0557-AA

**Product code structure**

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

<b>Type</b>	<b>RZ</b> Power PCB Relay RZ
<b>Version</b>	<b>H</b> Hot version 105°C
<b>Version</b>	<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)
<b>Contact Configuration</b>	<b>1A</b> 1 form A (1 NO) contact <b>1C</b> 1 form C (1 CO) contact
<b>Contact material</b>	<b>4</b> AgNi 90/10 <b>3</b> AgSnO <sub>2</sub>
<b>Coil version</b>	Coil code: please refer to coil versions table

Product code	Version	Contacts	Contact material	Coil	Part number
RZH3-1C4-D012	16A, 105°C	1 form C (CO)	AgNi 90/10	12VDC	2-1415899-5
RZH3-1C4-D024	pinning 5mm	1 form A (NO)		24VDC	2-1415899-6
RZH3-1A4-D009				9VDC	2-1415899-7
RZH3-1A4-D012			12VDC	2-1415899-8	
RZH3-1A4-D024			24VDC	2-1415899-9	
RZHH-1A4-D009		16A, 105°C		9VDC	6-1415899-2
RZHH-1A4-D012	pinning 5mm	12VDC		6-1415899-6	
RZHH-1A4-D024	High performance		24VDC	6-1415899-7	
RZH3-1A3-D012	16A, 105°C, pinning 5mm		1 form A (NO)	AgSnO <sub>2</sub>	12VDC

This list represents the most common types and does not show all variants covered by this datasheet.

Other types on request



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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