

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

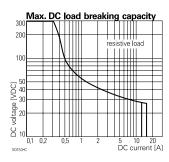
Approvals

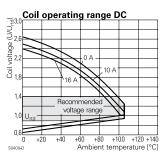
VDE Cert. No. 40023970, cULus E214025, CQC 12002066685 Technical data of approved types on request

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

Contact rating	s for standar	d version	
Туре	Contact	Load	Cycles
IEC 61810			
RZH3-1C4	A/C (NO/NC)	16 A, 250 VAC, 105°C	10x10 ³
RZH3-1A3	A (NO)	16 A, 250 VAC, 85°C	40x10 ³
RZH3-1A3	A (NO)	12 A, 250 VAC, 105°C	20x 10 ³
RZH1A4	A (NO)	10 A, 250 VAC, 105°C	150x10 ³
RZHH-1A4	A (NO)	12 A, 250 VAC, 85°C	150x10 ³
RZHH-1A4	A (NO)	18 A, 250 VAC, 85°C	30x10 ³
RZHH-1A4	A (NO)	12 A, 250 VAC, 105°C	100x10 ³
RZHH-1A4	A (NO)	10 A, 250 VAC, 105°C	300x10 ³
RZHH-1A4	A (NO)	16 A, 250 VAC, 105°C	30x10 ³
RZH1A4	A (NO)	16 A, 250 VAC, 85°C	50x10 ³
UL 61810-1 (fo	ormer UL 508)		
RZH3-1A4	A (NO)	10 A, 250 VAC, 105°C	150x10 ³
RZH3-1C4	A/C (NO/NC)	16 A, 250 VAC, 105°C	10x10 ³
RZHH-1A4	A (NO)	10 A, 250 VAC, 105°C	300x10 ³
RZHH-1A4	A (NO)	12 A, 250 VAC, 105°C	150x10 ³
RZHH-1A4	A (NO)	12 A, 250 VAC, 85°C	150x10 ³
RZHH-1A4	A (NO)	16 A, 250 VAC, 105°C	30x10 ³
RZHH-1A4	A (NO)	16 A, 250 VAC, 85°C	50x10 ³





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F0305-A

Contact Data (continued)

Contact ratings for RZ reinforced flux proof version					
Туре	Contact	Load	Cycles		
IEC 61810					
RZHH-1A4-DR	A (NO)	16A, 250VAC, 105°C	30x10 ³		
IEC 61810 (former	r UL 508)				
RZHH-1A4-DR	A (NO)	16A, 277VAC, GP, 105°C	100x10 ³		

Mechanical endurance

Coil Data

to 48VDC
.110% U _{RTD}
class F

>10x10⁶ operations

Coil versions, DC coil

	10113, DO CO				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW ¹⁾
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 _{rms}
between contact and coil	5000V _{rms}
Clearance/creepage	
between contact and coil	≥10/10mm
Material group of insulation parts	Illa
Tracking index of relay base	PTI250V

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

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Power PCB Relay RZH 105°C 16A (Continued)

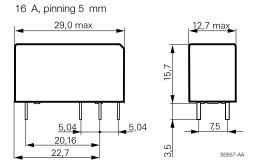
Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Resistance to heat and fire	
standard cover version	according EN 60335-1, par.30
Ambient temperature	-40 to 105°C
Category of environmental protection	1
IEC 61810	RTII - flux proof
Vibration resistance (functional), 30 to	o 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 ²⁾
Packaging/unit	tube/20 pcs., box/500 pcs.
suffix-00001/-R0001 & -00002/-R0002	See details C-1558100

2) The use of foaming flux is not permitted.

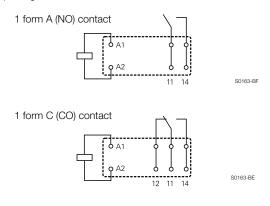
Dimensions



PCB layout / terminal assignment

Bottom view on solder pins

16A, pinning 5mm



Recommended pcb hole for manual mounting: $\not O$ 1.3mm For automated mounting please ask for detailed drawing.

Typical product code RZ H 3 -1A	4	-D012	-R
Product code structure			
Туре			
RZ Power PCB Relay RZ			
Version			
H Hot version 105°C			
Version			
3 double pinning 5mm, 16A (1 form A or 1 form C)			
H double pinning 5mm, 16A High performance (1 form A)			
Contact Configuration			
1A 1 form A (1 NO) contact			
1C 1 form C (1 CO) contact			
Contact material			
4 AgNi 90/10			
3 AgSnO ₂			
Coil version		-	
Coil code: please refer to coil versions table			
Cover version			
Blank standard (hot stamped)			
-R reinforced flux proof (epoxy) and Plug-In capable (only AgNi contact versions)			

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Power PCB Relay RZH 105°C 16A (Continued)

Product code	Version	Contacts	Contact material	Coil	Part n	rt number	
i foddet code	Version	Contacts	Contact material	0011	Austria	China	
RZH3-1C4-D012	16A, 105°C	1 form C (CO)	AgNi 90/10	12VDC	2-1415899-5		
RZH3-1C4-D024	pinning 5mm			24VDC	2-1415899-6		
RZH3-1A4-D009		1 form A (NO)		9VDC	2-1415899-7		
RZH3-1A4-D009-R0001				9VDC		2-2071452-6	
RZH3-1A4-D012				12VDC	2-1415899-8		
RZH3-1A4-D012-R0001				12VDC		2-2071452-7	
RZH3-1A4-D024				24VDC	2-1415899-9		
RZH3-1A4-D024-R0001				24VDC		2-2071452-8	
RZHH-1A4-D009	16A, 105°C	1		9VDC	6-1415899-2		
RZHH-1A4-D009-R0001	pinning 5mm			9VDC	2071452-8		
RZHH-1A4-D012	High performance			12VDC	6-1415899-6		
RZHH-1A4-D012-R0001				12VDC		2071452-7	
RZHH-1A4-D024				24VDC	6-1415899-7		
RZHH-1A4-D024-R0001				24VDC	1	3-2071452-2	
RZH3-1A3-D012	16A, 105°C, pinning 5mm		AgSnO2	12VDC	9-1415899-0		

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