

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

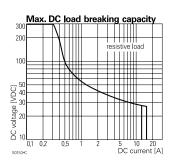
VDE Cert. No. 40023970, cULus E214025, CQC 12002066685

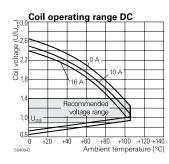
Technical data of approved types on request

Contact Data	
Contact arrangement 1	form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	16A 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 ratings for standard version

Type	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 (fd	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





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 (forme	r UL 508)					
RZHH-1A4-DR	A (NO)	16A, 277VAC, GP, 105°C	100x10 ³			

Co			ta

Coil voltage range	3 to 48VDC	
Operative range, IEC 61810	90110% U _{RTD}	
Coil insulation system according UL1446	class F	

Coil versions, DC coil

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
4) 0		1 40 4 14050		C	1 100/ 1

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



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 according EN 60335-1, par.30 standard cover version Ambient temperature -40 to 105°C Category of environmental protection IEC 61810 RTII - flux proof Vibration resistance (functional), 30 to 500Hz >15g closing form A contact 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/10s2) Packaging/unit tube/20 pcs., box/500 pcs.

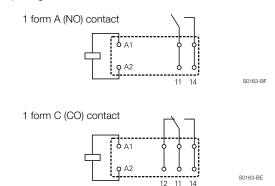
See details C-1558100

suffix-00001/-R0001 & -00002/-R0002 2) The use of foaming flux is not permitted.

PCB layout / terminal assignment

Bottom view on solder pins

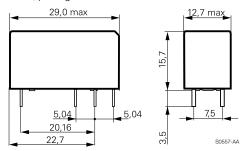
16A, pinning 5mm

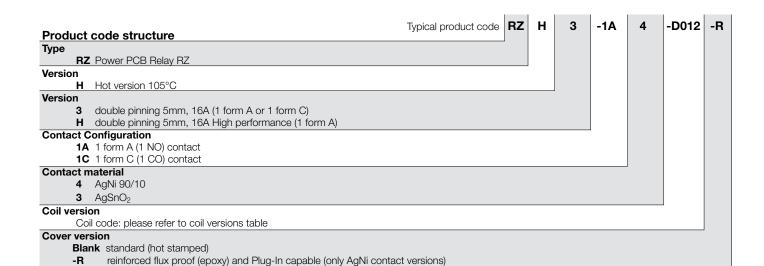


Recommended pcb hole for manual mounting: \emptyset 1.3mm For automated mounting please ask for detailed drawing.

Dimensions









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

Product code	Version	Contacts	Contact material	Coil	Part number	
1 Toduct Code	Version	Contacts	Contact material		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			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		3-2071452-2
RZH3-1A3-D012	16A, 105°C, pinning 5mm		AgSnO2	12VDC	9-1415899-0	