



Power PCB Relay RTH 105°C 16A

- 1 pole 16 A, 1 CO or 1 NO contact
- **■** High-temperature version
- Sensitive coil 400 mW
- 5 kV / 10 mm coil-contact
- Reinforced insulation
- WG version: Product in accordance to IEC60335-1
- Ambient temperature 105°C at rated load
- RoHS compliant (Directive 2002/95/EC) as per product date code 0413



FD22D-C

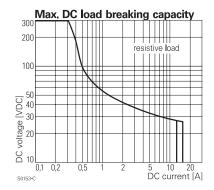
SCHRACK

Applications

Oven control, cooking plate control

Approvals VDE REG.-Nr. 6106, C SU US E214025 Technical data of approved types on request

Contact data	
Contact configuration	1 CO or 1 NO
Contact set	single contact
Type of interruption	micro disconnection
Rated current	16 A ¹⁾
Rated voltage / max.switching voltage AC	240/400 VAC
Limiting continuous current NO/NC contact	16 / 25 A
Maximum breaking capacity AC	4000 VA
Limiting making capacity, max 4 s, duty factor 10%	30 A
Contact material	AgNi 90/10
Mechanical endurance	> 10 x 10 ⁶ cycles
Rated frequency of operation with / without load	6 / 1200 min ⁻¹



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Cor	ıtact	ratı	ngs

Туре	Load	Cycles
RTH14	10 A, 250 VAC, NO contact. 105°C, EN61810-1	1,5x10 ⁵
RTH14	16 A, 250 VAC, NO contact, 105°C, UL508	3x10 ⁴
RTH14	16 A, 250 VAC, CO contact, 105°C, EN61810-1	1x10 ⁴
RTHH4	10 A, 250 VAC, 105°C	typ 3x10 ⁵
RTHH4	16/8 A, 250 VAC, 105°C	typ 2,5x10 ⁵
RTHH4	15 A. 250 VAC. 105°C. 10% DF. 7.5 min ⁻¹ . UL508	1x10 ⁵

Coil data	
Rated coil voltage range DC coil	560 VDC
Coil power	typ 400 mW ¹⁾
Operative voltage range, % of rated coil voltage	90 - 110 %
Coil insulation system according UL1446	class F

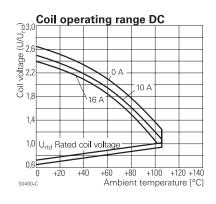
Coil versions, DC-coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω	mW
009	9	6.3	0.9	203±10%	399
012	12	8.4	1.2	360±10%	400
024	24	16.8	2.4	1440±10%	400

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

1) Continuous thermal load > 10 A at 105°C requires reduction of coil power to 64% of

rated power after 100 ms



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Dimensions are in mm unless otherwise specified and are shown for reference purposes

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

processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.





Electronics

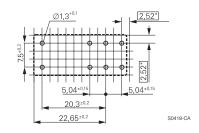
Power PCB Relay RTH 105°C 16A (Continued)

Insulation		
Dielectric strength coil-contact circuit	500	0 V _{rms}
open contact circuit	100	0 V _{rms}
Clearance / creepage coil-contact circuit	≥ 10 /	/ 10 mm
Material group of insulation parts	≥	Illa
Tracking index of relay base	PTI	250 V
Insulation to IEC 60664-1		
Type of insulation coil-contact circuit	reinf	orced
open contact circuit	functional	
Rated insulation voltage	25	50 V
Pollution degree	3	2
Rated voltage system	240 V	400 V
Overvoltage category		III

PCB layout / terminal assignment

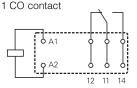
Bottom view on solder pins

16 A, pinning 5 mm



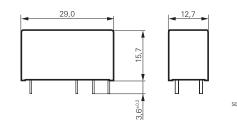
*) With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.

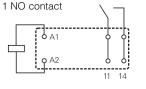
Other data RoHS - Directive 2002/95/EC compliant as per product date code 0413 Flammability class according to UL94 For WG version: GWFI to IEC 60335-1 V-0 > 850 °C > 650 °C GWT to IEC 60335-1 current ≤ 0,2 A > 750 °C current > 0,2 A Ambient temperature range -40...+105°C typ 7 / 3 ms Operate- / release time Bounce time NO / NC contact typ 1 / 3 ms 20 / 5 g, 30 ... 150 Hz Vibration resistance (function) NO / NC contact Shock resistance (destruction) 100 g Category of protection RTII - flux proof Mounting pcb Mounting distance 0 mm 270 °C / 10 s Resistance to soldering heat flux-proof version Relay weight 14 g 20 / 500 pcs Packaging unit



S0163-BF

Dimensions





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Product key

R T Н Type Version 16 A, pinning 5 mm, 105°C н Contact configuration 1 1 CO contact H 1 NO contact "High Performance" 3 1 NO contact Contact material 4 AgNi 90/10

Coil Version

Blank Standard version

Coil code: please refer to coil versions table

Product in accordance with IEC 60335-1 (domestic appliances)

Product key	Version	Contacts	Contact material	Coil	Part number
RTH14012	16 A, 105°C	1 CO contact	AgNi 90/10	12 VDC	8-1415006-1
RTH34012	pinning 5mm	1 NO contact	, and the second		9-1415006-1
RTHH4012	flux proof	1 NO high perform.			8-1415047-1
RTH14012WG	16 A, 105°C	1 CO contact			1-1415538-1
RTH34012WG	pinning 5mm	1 NO contact			1-1415536-9
RTH14024WG	flux proof	1 CO contact		24 VDC	9-1415535-4
RTH34024WG	IEC 60335-1	1 NO contact			2-1415536-0

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