



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



E0220-C

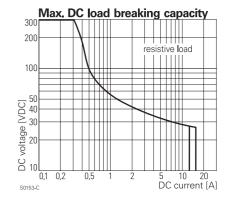
SCHRACK

Applications

Oven control, cooking plate control

Approvals
REGNr. 6106, c
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	



Contac	t ratings

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

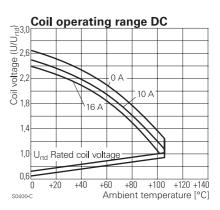
Coil versions, DC-coil

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

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

rated power after 100 ms







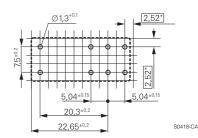


Power PCB Relay RTH 105°C 16A (Continued)

Insulation			
Dielectric strength coil-contact circuit	5000	O V _{rms}	
open contact circuit	1000	O V _{rms}	
Clearance / creepage coil-contact circuit	≥ 10 /	10 mm	
Material group of insulation parts ≥ IIIa			
Tracking index of relay base PTI 250 V			
Insulation to IEC 60664-1			
Type of insulation coil-contact circuit reinforced			
open contact circuit	t functional		
Rated insulation voltage 250 V			
Pollution degree	3	2	
Rated voltage system	240 V	400 V	
Overvoltage category			

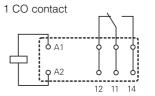
PCB layout / terminal assignment Bottom view on solder pins

16 A, pinning 5 mm

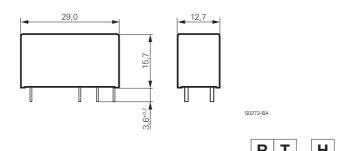


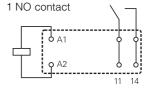
*) With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.

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 \leq 0,2 A > 750 °C current > 0,2 A -40...+105°C typ 7 / 3 ms Ambient temperature range Operate- / release time Bounce time NO / NC contact typ 1 / 3 ms Vibration resistance (function) NO / NC contact 20 / 5 g, 30 ... 150 Hz Shock resistance (destruction) 100 g RTII - flux proof Category of protection Mounting pcb Mounting distance 0 mm 270 °C / 10 s Resistance to soldering heat flux-proof version 14 g Relay weight 20 / 500 pcs Packaging unit



Dimensions





S0163-BF

Product key

Product key	R T H 4	ļ
Туре		_
Version		
H 16 A, pinning 5 mm, 105°C		
Contact configuration		
1 1 CO contact		
3 1 NO contact	H 1 NO contact "High Performance"	
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			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