

Power PCB Relay RTH 105°C 16A

- 1 pole 16 A, 1 CO or 1 NO contact
- Ambient temperature 105°C
- Sensitive coil 400 mW
- 5 kV / 10 mm coil-contact
- Reinforced insulation
- WG version: Product in accordance to IEC60335-1



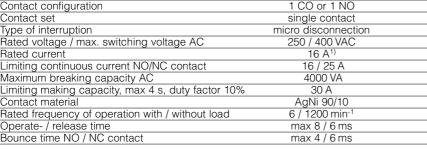
F0220-D

Applications

Oven control, cooking plate control

Approvals
REGNr. 6106, c us E214025, c 14385
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 voltage / max. switching voltage AC	250 / 400 VAC
Rated current	16 A ¹⁾
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
Rated frequency of operation with / without load	6 / 1200 min ⁻¹
Operate- / release time	max 8 / 6 ms
Bounce time NO / NC contact	may 4 / 6 ms



Contact ratings					
Туре	Contact	Load	Ambient	Cycles	
			temp. [°C]		
IEC 618	810				
RTH14	NO	10 A, 250 VAC, cosφ=1	105°C	150x10 ³	
RTH14	CO	16 A, 250 VAC, cosφ=1	105°C	10x10 ³	
RTH14	NC	26 A, 250 VAC, cosφ=1	85°C	500	
RTH34	NO	10 A, 400 VAC, cosφ=1	105°C	150x10 ³	
RTHH4	NO	10 A, 250 VAC, cosφ=1	105°C	250x10 ³	
UL 508	}	<u>. </u>			
RTH14	NO / NC	16 A, 250 VAC, resistive	105°C	30x10 ³	
RTH34	NO	20 A, 250 VAC, general purpose	105°C	6x10 ³	

Coil data	
Rated coil voltage range DC coil	560 VDC
Operative voltage range, % of rated coil voltage	90 - 110 %
Coil insulation system according UL1446	class F

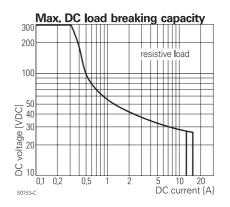
C-:1		DC asil
COII	versions,	DC-COII

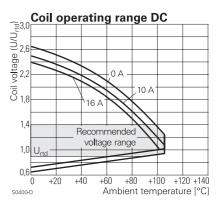
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDČ	VDC	VDC	Ω	mW
009	9	6.3	0.9	203±10%	399 ¹⁾
012	12	8.4	1.2	360±10%	400 ¹⁾
024	24	16.8	2.4	1440±10%	400 ¹⁾

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







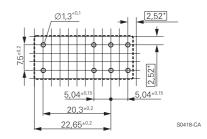
Power PCB Relay RTH 105°C 16A (Continued)

> 30 x 10⁶ cycles

Insulation			
Dielectric strength coil-contact circuit	50	000 V _{rms}	
open contact circuit	1000 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 61810-1			
Type of insulation coil-contact circuit	reinforced		
open contact circuit	micro disconnection		
Rated insulation voltage 250 V		250 V	
Pollution degree	3	2	
Rated voltage system	240 V	230 / 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 Mechanical endurance

Material

RoHS - Directive 2002/95/EC compliant as per product date code 0413 acording EN60335, par30 Resistance to heat and fire, WG version

Environment

Ambient temperature range -40...+105°C Vibration resistance (function) NO / NC contact 20 / 5 g, 30 ... 150 Hz

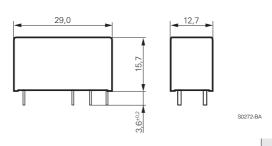
100 g Shock resistance (destruction) Category of protection RTII - flux proof

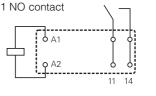
Processing

Mounting pcb Mounting distance ≥ 0 mm Resistance to soldering heat flux-proof version 270 °C / 10 s 14 g Relay weight Packaging unit 20 / 500 pcs

1 CO contact 6 A1 **ρ** A2

Dimensions





S0163-BF

Product key

Typical product key

RT

3

Н

4

WG

012

Туре

RT Power PCB Relay RTH 105°C 16A

Version Н

16 A, pinning 5 mm, 105°C

Contact configuration

1 CO contact (1 form C)

1 NO contact (1 form A) 3

H 1 NO contact "High Performance" (1 form A)

Contact material

AgNi 90/10

Coil

Coil code: please refer to coil versions table

Version

Blank Standard version

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

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