

## Power PCB Relay RTH 105°C 16A

- 1 pole 16A, 1 form C (CO) or 1 form A (NO) contact
- Ambient temperature 105°C
- Sensitive coil 400mW
- 5kV/10mm coil-contact
- Reinforced insulation
- WG version: Product in accordance to IEC 60335-1

Typical applications Oven control, cooking plate control



F0220-D





**Approvals** 

VDE REG.-Nr. 6106, UL E214025, cCSAus 14385

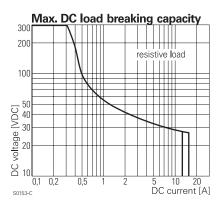
Technical data of approved types on request

Contact Data	
Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	16A <sup>1)</sup>
Limiting continuous current, form A/forr	mB 16/26A
Limiting making current (form A contact	r)
max. 4 s, duty factor 10 %	30A
Breaking capacity max.	4000VA
Contact material	AgNi 90/10
Frequency of operation, with/without lo	ad 360/72000h <sup>-1</sup>
Operate/release time max.	8/6ms
Bounce time max., form A/form B	4/6ms

Contact r	atings		
Туре	Contact	Load	Cycles
<b>IEC 61810</b>	)		
RTH14	A (NO)	10A, 250VAC resistive,105°C	150x10 <sup>3</sup>
RTH14	C (CO)	16A, 250VAC resistive, 105°C	10x10 <sup>3</sup>
RTH14	B (NC)	26A, 250VAC resistive, 85°C	500
RTH34	A (NO)	10A, 400VAC resistive, 105°C	150x10 <sup>3</sup>
RTHH4	A (NO)	10A, 250VAC resistive, 105°C	250x10 <sup>3</sup>
UL 508			
RTH14	A/B (NO/NC)	16A, 250VAC, resistive, 105°C	$30x10^3$
RTH34	A (NO)	20A, 250VAC, general purpose, 105°C	6x10 <sup>3</sup>

>30x10<sup>6</sup> operations Mechanical endurance

<sup>1)</sup> Continuous thermal load >10A at 105°C requires reduction of coil power to 64% of rated power after 100ms



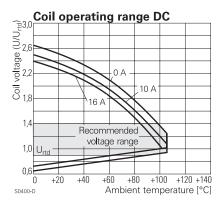
Coil Data		
Coil voltage range	5 to 60VDC	
Operative range, IEC 61810	90110% U <sub>RTD</sub>	
Coil insulation system according UL1446	class F	

Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power

power VDČ VDČ VDČ Ω±10% mW 009 9 6.3 0.9 203 3991) 012 12 8.4 1.2 360 4001) 024 24 16.8 2.4 1440  $400^{1)}$ 

1) Continuous thermal load > 10 A at 105°C requires reduction of coil power to 64% of rated power after 100ms.

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 <sub>rms</sub>	
between contact and coil	5000V <sub>rms</sub>	
Clearance/creepage		
between contact and coil	≥10/10mm	
Material group of insulation parts	Illa	
Tracking index of relay base	PTI250V	



## Power PCB Relay RTH 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

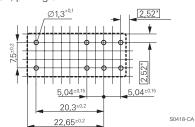
Resistance to heat and fire WG version according EN 60335-1, par.30 Ambient temperature -40 to 105°C Category of environmental protection IEC 61810 RTII - flux proof Vibration resistance (functional) 20/5g form A/form B contact, 30 to 150Hz Shock resistance (destructive) 100g Terminal type PCB-THT Weight 14g Resistance to soldering heat THT 270°C/10s IEC 60068-2-20

tube/20 pcs., box/500 pcs.

#### PCB layout / terminal assignment

Bottom view on solder pins

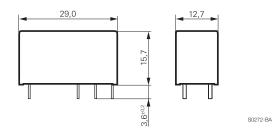
#### 16A, pinning 5mm

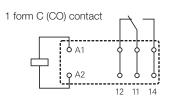


\*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.

### **Dimensions**

Packaging/unit





1 form A (NO) contact

A1

A2

S0163-BF

S0163-BE

Produc	t code structure Typical product code	RT	н	3	4	012	WG
Туре	T. D DOD D. L DTI 140500 404						
	T Power PCB Relay RTH 105°C 16A						
Version							
Н	16A, pinning 5mm, 105°C						
Contact	configuration			-			
1	1 form C (CO) contact						
3							
Contact	material						
4	AgNi 90/10						
Coil						•	
С	oil code: please refer to coil versions table						
Version							11
В	lank Standard version						
W	Product in accordance with IEC 60335-1 (domestic appliances)						

Product code	Version	Contact configuration	n Contact Material	Coil	Part number
RTH14012	16A, 105°C	1 form C (CO)	AgNi 90/10	12VDC	8-1415006-1
RTH14012WG		contact			1-1415538-1
RTH14024WG				24VDC	9-1415535-4
RTH34012		1 form A (NO)		12VDC	9-1415006-1
RTH34012WG		contact			1-1415536-9
RTH34024				24VDC	1415039-1
RTH34024WG					2-1415536-0
RTHH4009WG	16A, 105°C,			9VDC	1-1415540-6
RTHH4012	High Performance			12VDC	8-1415047-1
RTHH4012WG					4-1415536-2
RTHH4024				24VDC	9-1415047-1

This list represents the most common types and does not show all variants covered by this datasheet.

Other types on request

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