

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.

Approvals

VDE Cert. No. 40007571, UL E214025, cCSAus 1142018 Technical data of approved types on request

Contact Da	ata
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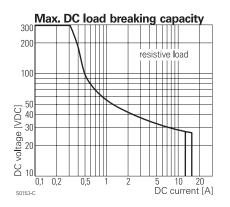
Contact Data	
Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	16A ¹⁾
Limiting continuous current, form A/fo	rm B 16 / 26A
Limiting making current (form A conta	ct)
max. 4 s, duty factor 10 %	30A
Breaking capacity max.	4000VA
Contact material	AgNi 90/10
Frequency of operation, with/without I	oad 360/72000h-1
Operate/release time max.	8/6ms
Bounce time max., form A/form B	4/6ms

Contact ratings

Contact I	aunys		
Туре	Contact	Load	Cycles
IEC 61810)		
RTH14	A (NO)	10A, 250VAC resistive,105°C	150x10 ³
RTH14	C (CO)	16A, 250VAC resistive, 105°C	10x10 ³
RTH14	B (NC)	26A, 250VAC resistive, 85°C	500
RTH34	A (NO)	10A, 400VAC resistive, 105°C	150x10 ³
RTHH4	A (NO)	10A, 250VAC resistive, 105°C	250x10 ³
UL 508			
RTH14	A/B (NO/NC)	16A, 250VAC, resistive, 105°C	30x103
RTH34	A (NO)	20A, 250VAC, general purpose, 85°C	6x10 ³

Mechanical endurance

>30x10⁶ operations 1) Continuous thermal load >10A at 105°C requires reduction of coil power to 64% of rated power after 100ms.



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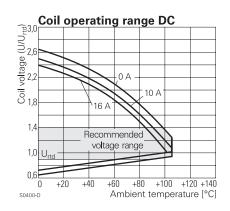
Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.



Coil Dat	a					
Coil voltag	Coil voltage range			5 to 60VDC		
Operative range, IEC 61810			90110% U _{RTD}			
Coil insulation system according UL1				class F		
Coil versi	ons, DC co	il				
Coil	Rated	Operate	Release	Coil	Rated coil	
code	voltage	voltage	voltage	resistance	power	
	VDC	VDC	VDC	Ω±10%	mW	
009	9	6.3	0.9	203	399 ¹⁾	
012	12	8.4	1.2	360	400 ¹⁾	
024	24	16.8	2.4	1440	4001)	

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

mound on Bata		
Initial dielectric strength		
between open contacts	1000V _{rms}	
between contact and coil	5000V	
Clearance/creepage	1110	
between contact and coil	≥10/10mm	
Material group of insulation parts	Illa	
Tracking index of relay base	PTI250V	

Catalog and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Catalog product data, 'Definitions' section, application notes and all specifications are subject to change.

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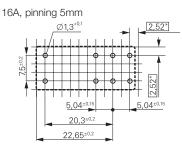


Power PCB Relay RTH 105°C 16A (Continued)

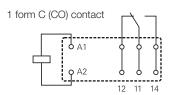
Other Data

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 according EN 60335-1, par.30 WG version -40 to 105°C Ambient temperature Category of environmental protection IEC 61810 RTII - flux proof Vibration resistance (functional) form A/form B contact, 30 to 150Hz 20/5g Shock resistance (destructive) 100g PCB-THT Terminal type Weight 14g Resistance to soldering heat THT IEC 60068-2-20 270°C/10s Packaging/unit tube/20 pcs., box/500 pcs.

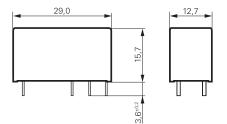
PCB layout / terminal assignment

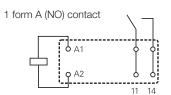


^{*)} With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.









Product c	ode structure Typical product code	RT	н	3	4	012	WG
Туре							
RT F	Power PCB Relay RTH 105°C 16A						
Version							
H 1	16A, pinning 5mm, 105°C						
Contact con	nfiguration			-			
1 1	1 form C (CO) contact						
3 1	1 form A (NO) contact H 1 form A (NO) contact "High Performance"						
Contact ma	iterial				-		
4 /	AgNi 90/10						
Coil						_	
Coil d	code: please refer to coil versions table						
Version							
Blan	k Standard version						
WG	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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2

Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

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