

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

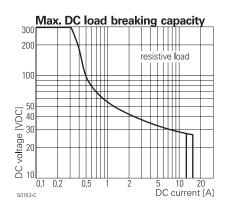
Contact Data	
Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	16A ¹⁾
Limiting continuous current, form A/for	m B 16 / 26A
Limiting making current (form A contact	et)
max. 4 s, duty factor 10 %	30A
Breaking capacity max.	4000VA
Contact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

Contact ratings

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	30x10 ³
RTH34	A (NO)	20A, 250VAC, general purpose, 105°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.



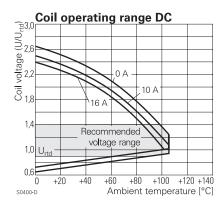
Coil Data		
Coil voltage range	5 to 60VDC	
Operative range, IEC 61810	90110% U _{RTD}	
Coil insulation system according UL1446	class F	

Coil versions, DC coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%$	mW
009	9	6.3	0.9	203	3991)
012	12	8.4	1.2	360	4001)
024	24	16.8	2.4	1440	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		
Initial dielectric strength		
between open contacts	1000V _{rms}	
between contact and coil	5000V	
Clearance/creepage	***************************************	
between contact and coil	≥10/10mm	
Material group of insulation parts	Illa	
Tracking index of relay base	PTI250V	



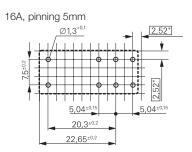
Power PCB Relay RTH 105°C 16A (Continued)

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

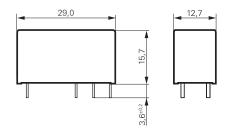
www.te.com	n/customersupport/rohssupportcenter
Resistance to heat and fire	
WG version	according EN 60335-1, par.30
Ambient temperature	-40 to 105°C
Category of environmental protection	
IEC 61810	RTII - flux proof
Vibration resistance (functional)	
form A/form B contact, 30 to 150H	z 20/5g
Shock resistance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

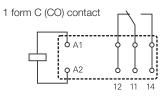
PCB layout / terminal assignment

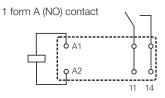


*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.

Dimensions







Product	code structure	Typical product code	RT	н	3	4	012	WG
Туре]					
RT	Power PCB Relay RTH 105°C 16A							
Version								
Н	16A, pinning 5mm, 105°C							
Contact of	onfiguration				-			
1	1 form C (CO) contact							
3	1 form A (NO) contact	1 form A (NO) contact "High Performance"						
Contact r	naterial					•		
4	AgNi 90/10							
Coil							•	
Co	il code: please refer to coil versions table							
Version								1
Bla	ank Standard version							
W	G 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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