

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 CQC 18002197247 (monostable), CQC 20002275223 (China production), CQC 08001027262 (China production)

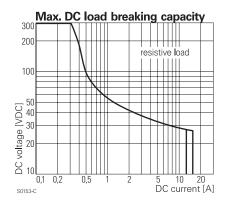
Technical data of approved types on request.

Contact ratings

Туре	Contact	Load	Cycles			
IEC 6181	0					
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 61810-1 (former UL 508)						
RTH14	A/B (NO/NC)	16A, 250VAC, resistive, 105°C	30x10 ³			
RTH34	A (NO)	20A, 250VAC, general purpose, 85°C	6x10 ³			

Mechanical endurance >30x10⁶ operations

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

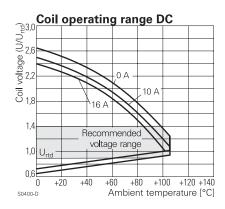


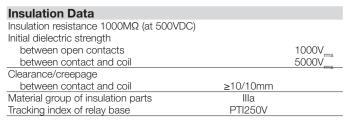
Coil Data	
Coil voltage range	5 to 60VDC
Operative range, IEC 61810	90110% U _{RID}
Coil insulation system according UL1446	class F

Coil Rated coil
Coil Batad coil
Con nated con
istance power
±10% mW
203 3991)
360 400 ¹⁾
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 $+23^{\circ}$ C. Other coil voltages on request.







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

20/5g

100g

PCB-THT

14g

270°C/10s

Category of environmental protection
IEC 61810

RTII - flux proof

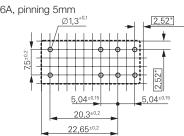
Vibration resistance (functional) form A/form B contact, 30 to 150Hz

Shock resistance (destructive)
Terminal type
Weight

Resistance to soldering heat THT IEC 60068-2-20

Bottom view on solder pins 16A, pinning 5mm

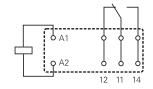
PCB layout / terminal assignment

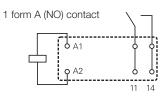


*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.

1 form C (CO) contact

Typical product code





RT

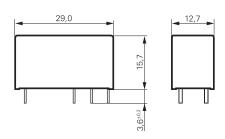
Н

3

012

WG

Dimensions



Product code structure

Type RT Power PCB Relay RTH 105°C 16A

Version

H 16A, pinning 5mm, 105°C

Contact configuration

1 1 form C (CO) contact

3 1 form A (NO) contact

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

Contact material

4 AgNi 90/10

Coil

Coil code: please refer to coil versions table

Version

Blank Standard version

WG Product in accordance with IEC 60335-1 (domestic appliances)

Product code	Version	Contacts	Contact material	Coil	Part Number	
					Austria	China
RTH14005	16A, 105°C	1 form C (CO)	AgNi 90/10	5VDC		1649357-1
RTH14012	·	contact	Ü	12VDC	8-1415006-1	1649357-4
RTH14012WG					1-1415538-1	5-1833004-3
RTH14024WG				24VDC	9-1415535-4	
RTH34012		1 form A (NO)		12VDC	9-1415006-1	1-1649357-3
RTH34012WG		contact			1-1415536-9	5-1833004-0
RTH34024				24VDC	1415039-1	1-1649357-5
RTH34024WG					2-1415536-0	
RTHH4009WG	16A, 105°C,			9VDC	1-1415540-6	
RTHH4012	High Performance			12VDC	8-1415047-1	
RTHH4012WG	Ŭ				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.