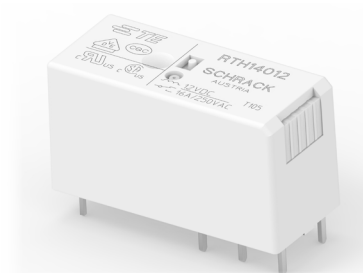


Power PCB Relay RTH 105°C 16A

- 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
- 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 Data

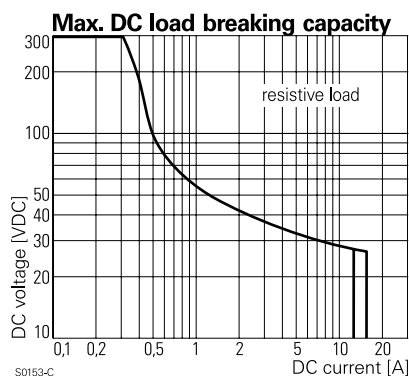
Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	16A ¹⁾
Limiting continuous current, form A/form B	16 / 26A
Limiting making current (form A contact) max. 4 s, duty factor 10 %	30A
Breaking capacity max.	4000VA
Contact material	AgNi 90/10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

Contact ratings

Type	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 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

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



Coil Data

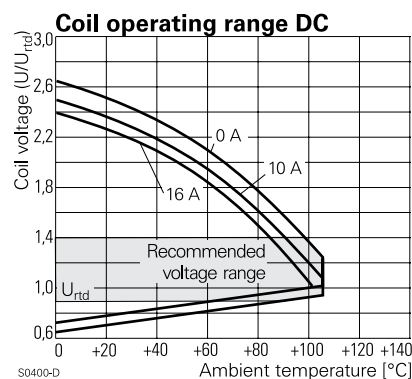
Coil voltage range	5 to 60VDC
Operative range, IEC 61810	90...110% U _{RTD}
Coil insulation system according UL1446	class F

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power 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	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

Insulation resistance 1000MΩ (at 500VDC)	
Initial dielectric strength	
between open contacts	1000V _{rms}
between contact and coil	5000V _{rms}
Clearance/creepage	
between contact and coil	≥10/10mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI250V

