

SCHRACK MINIATURE PCB RELAY REL

GENERAL PURPOSE LOW POWER PCB RELAYS

INTRODUCTION

TE Connectivity (TE)'s Miniature Power PCB Relays REL is general purpose relay designed for various types of loads (e.g., resistive, inductive) with low height. The relay is designed as 1 pole 5A with 1 form A (NO) contact and is in flux proof version. The relay is especially suited for applications white goods, consumer electronics, etc.

FEATURES

- 1 pole 5 A, 1 form A (NO) contact
- Low height 12.0mm
- Especially suited for applications white goods, consumer electronics, etc.
- Plastic materials according to IEC 60335-1 (domestic appliances)

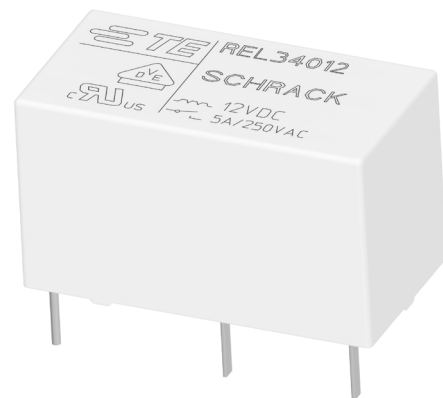
APPLICATIONS

- PLC's
- Timers
- Temperature control
- I/O cards
- White goods

APPROVALS

- VDE Cert. No. 40010579
- UL E214025

Technical data of approved types on request



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CONTACT DATA

Contact arrangement	1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	5A
Limiting making current, max 4s, duty factor 10%	15A
Contact material	AgNi 90/10
Frequency of operation with/without load	360/72000 ops./h
Operate/release time max.	10/5ms
Bounce time max.	4ms

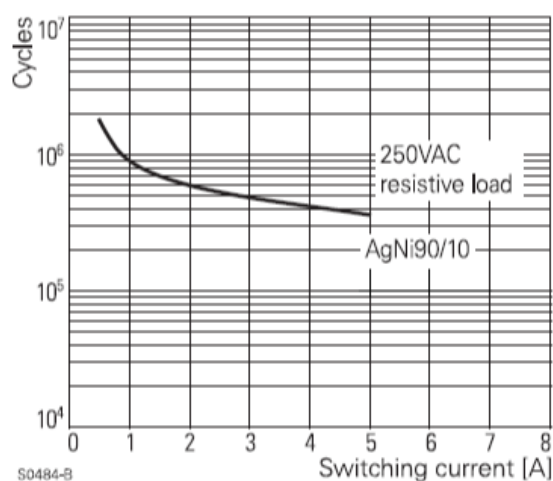
CONTACT RATINGS

Type	Contact	Load	Cycles
IEC 61810			
REL34	A (NO)	5A, 250VAC, $\cos\phi=1$, 85°C	100x10 ³
REL34	A (NO)	3A, 400VAC, $\cos\phi=1$, 85°C	400x10 ³
UL61810-1 (UL508)			
REL34	A (NO)	5A, 250VAC, resistive, 85°C	100x10 ³
Mechanical endurance	>10x10 ⁶ operations		

COIL DATA

Coil voltage range	5 to 48 VDC
Operative range, IEC 61810	2
Coil insulation system according UL1446	F

ELECTRICAL ENDURANCE



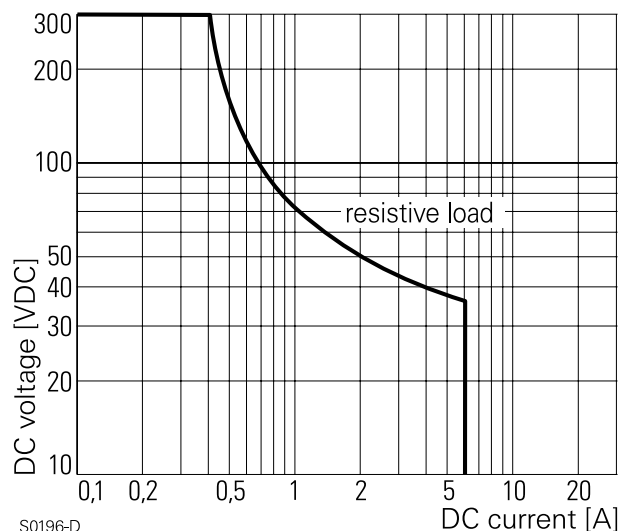
COIL VERSIONS, DC COIL

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%^{(1)}$	Rated coil power mW
005	5	3.75	0.5	70	357
006	6	4.5	0.6	100	360
012	12	9.0	1.2	400	360
024	24	18.0	2.4	1600	360
036	36	27.0	3.6	3600 ¹⁾	360
048	48	36.0	4.8	6400 ¹⁾	360

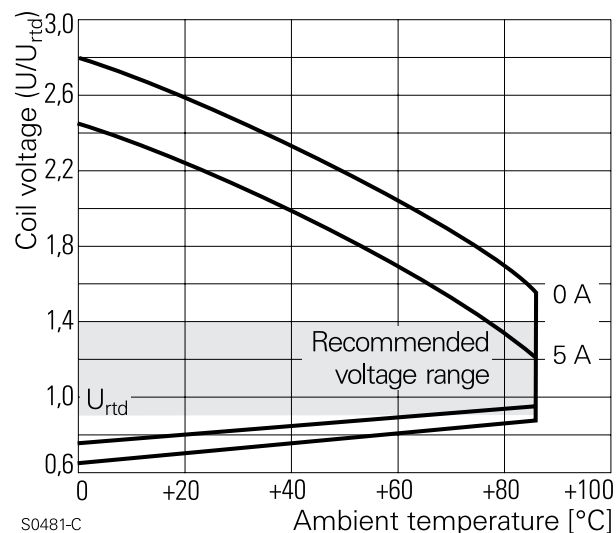
1) Coil resistance $\pm 15\%$.

All figures are given for coil without pre-energization, at ambient temperature +23°C. Other coil voltages on request.

MAX. DC LOAD BREAKING CAPACITY



COIL OPERATING RANGE DC



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INSULATION DATA

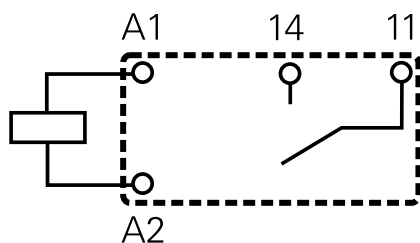
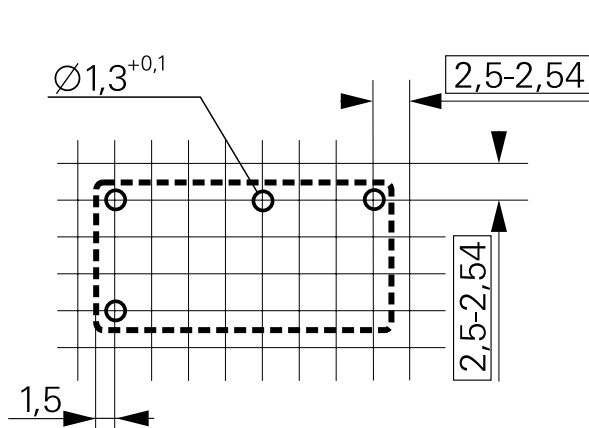
Initial dielectric strength	
Between open contacts	1000V _{rms}
Between contact and coil	3000V _{rms}
Initial insulation resistance	
Open contact circuit	>10x10 ⁹ Ω
Coil-contact circuit	>10x10 ⁹ Ω
Clearance/creepage	
Between contact and coil	≥4/4mm
Material group of insulation parts	IIIa

OTHER DATA

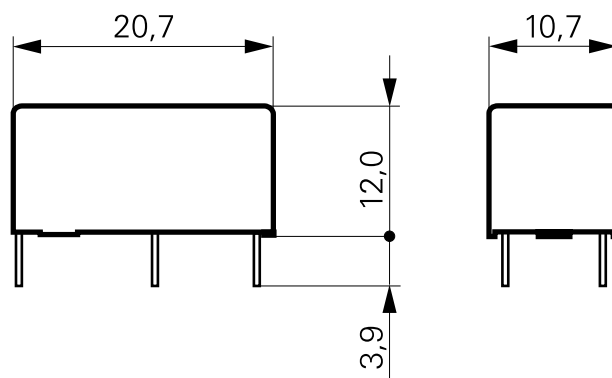
Material compliance	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter
Resistance to heat and fire	according EN60335, par.30
Ambient temperature	-40 to +85°C
Category of environmental protection	
IEC 61810	RTII - flux proof
Shock resistance (destructive)	100 g
Terminal type	PCB-THT
Weight	5 g
Resistance to soldering heat THT	
IEC 60068-2-20	270°C/10s
Packaging/unit	tube/25 pcs., box/500 pcs.

PCB LAYOUT / TERMINAL ASSIGNMENT

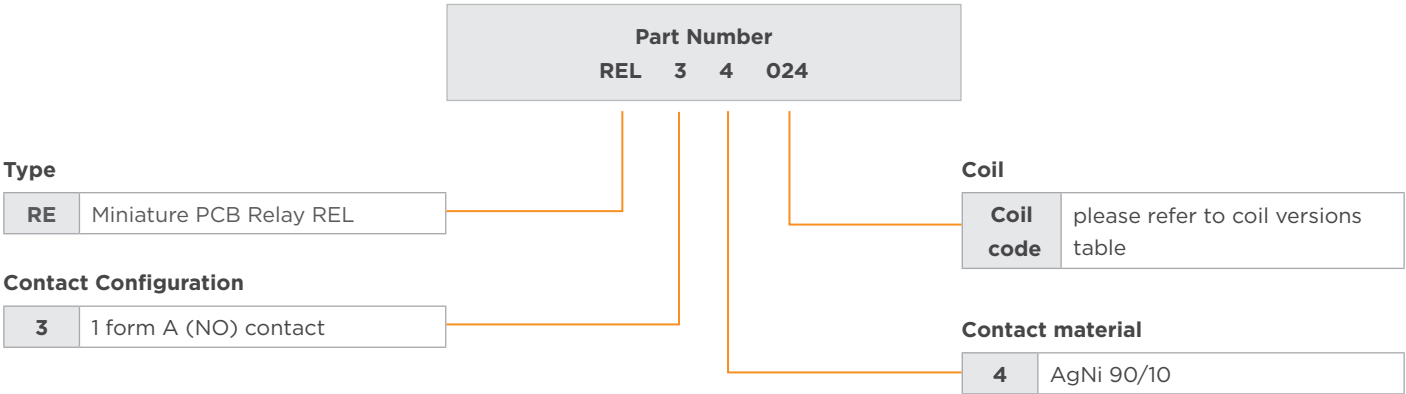
Bottom view on solder pins



DIMENSIONS (UNIT: mm)



PRODUCT CODE STRUCTURE



PRODUCT INFORMATION

Product code	Version	Contacts	Contact material	Coil	TE Part Number
REL34006	flux proof	1 form A 1 NO contact	AgNi90/10	6VDC	3-1415535-5
REL34012				12VDC	3-1415535-6
REL34024				24VDC	3-1415535-7
REL34048				48VDC	3-1415535-8

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