

# 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)

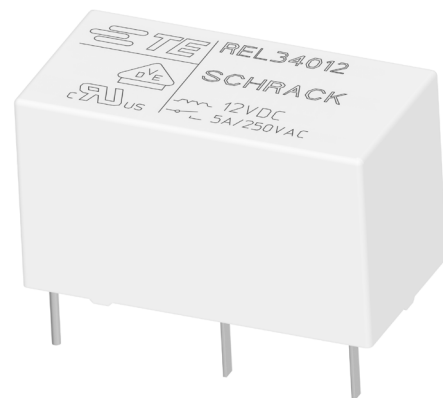
### APPLICATIONS

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

### APPROVALS

- VDE Cert. No. 40010579
- UL E214025

Technical data of approved types on request



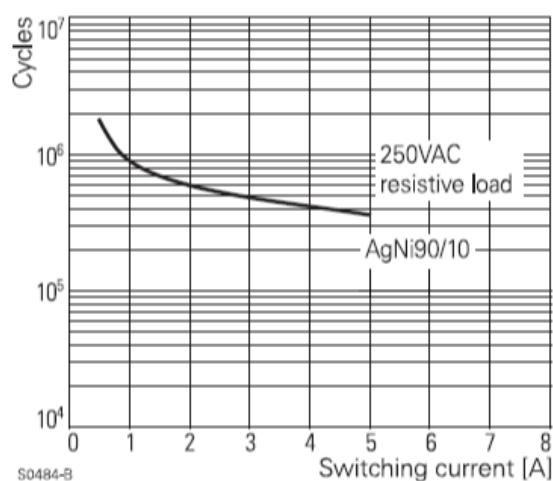
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General Purpose Relays | Low Power PCB Relays

## 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

## ELECTRICAL ENDURANCE



## CONTACT RATINGS

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

## CONTACT DATA

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

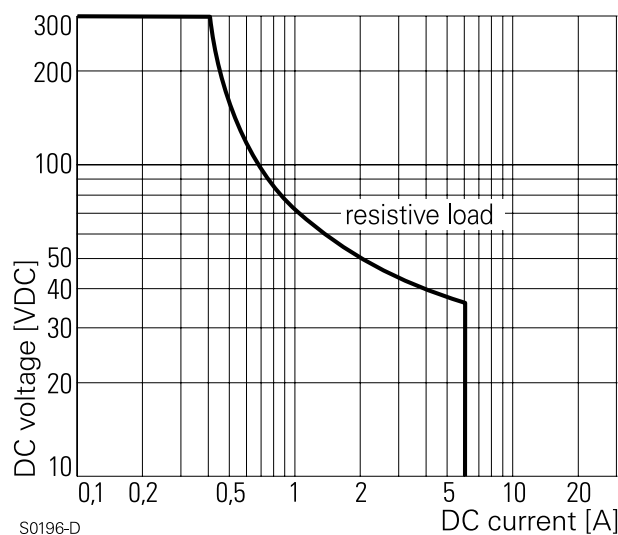
## COIL VERSIONS, DC COIL

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10% <sup>1)</sup>	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 <sup>1)</sup>	360
048	48	36.0	4.8	6400 <sup>1)</sup>	360

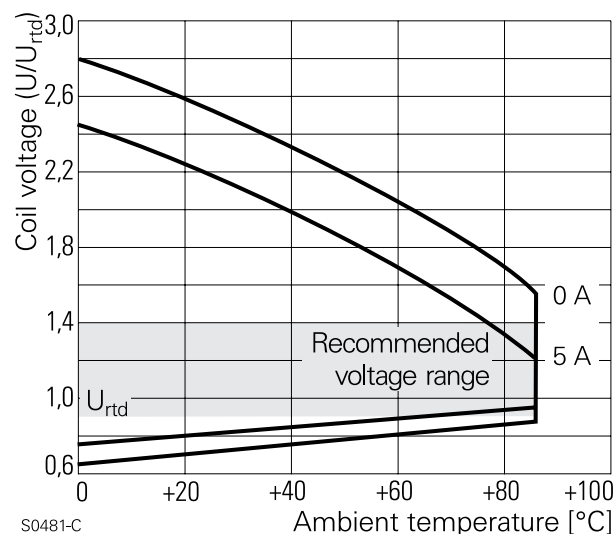
1) Coil resistance ±15%.

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

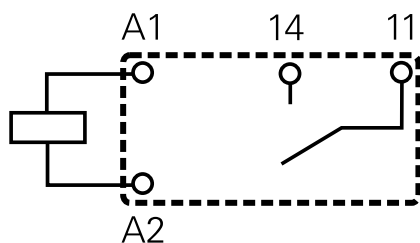
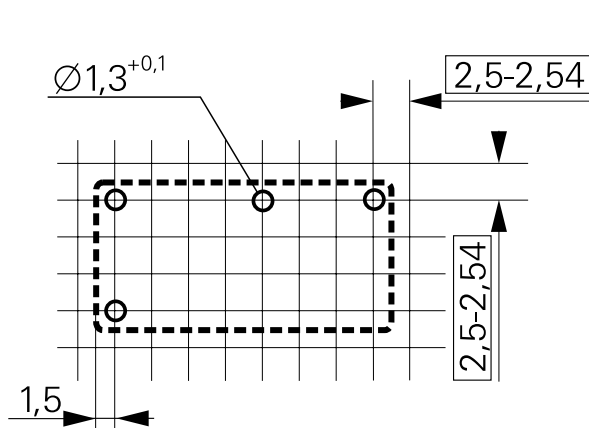
Initial dielectric strength	
Between open contacts	1000V <sub>rms</sub>
Between contact and coil	3000V <sub>rms</sub>
Initial insulation resistance	
Open contact circuit	>10x10 <sup>9</sup> Ω
Coil-contact circuit	>10x10 <sup>9</sup> Ω
Clearance/creepage	
Between contact and coil	≥4/4mm
Material group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

## OTHER DATA

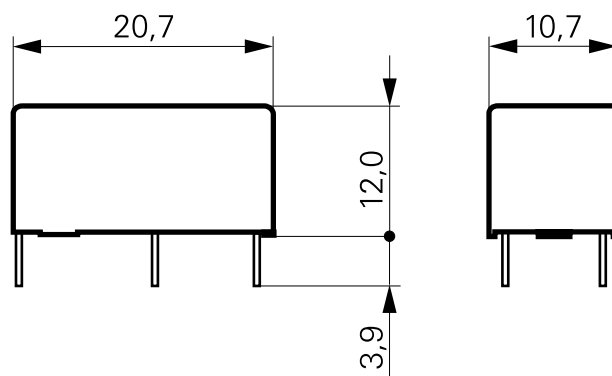
Material compliance	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at <a href="http://www.te.com/customersupport/rohssupportcenter">www.te.com/customersupport/rohssupportcenter</a>
Resistance to heat and fire	according EN60335, par.30
Ambient temperature	-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

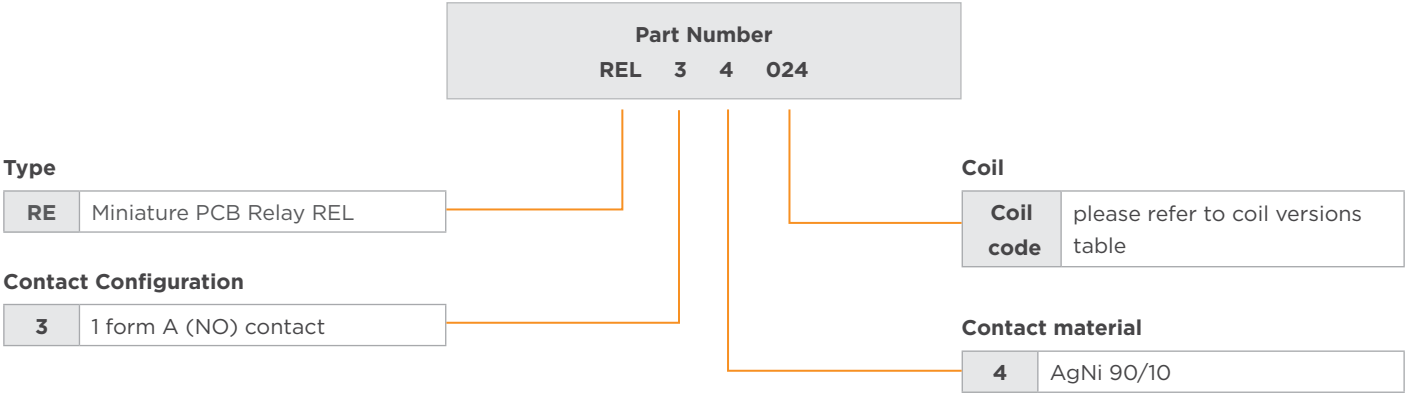
Bottom view on solder pins



## 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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