

# 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





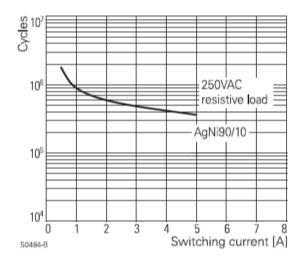
## SCHRACK Miniature PCB Relay REL

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**



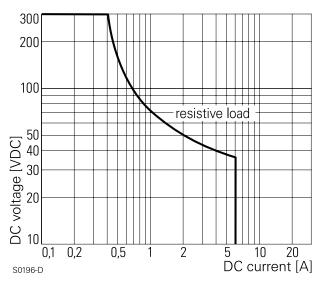
#### **CONTACT RATINGS**

Туре	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

#### MAX. DC LOAD BREAKING CAPACITY



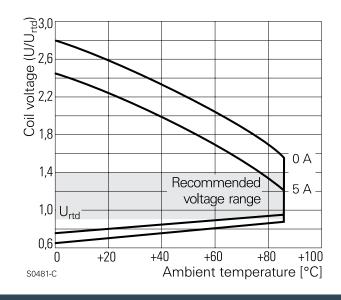
#### **COIL VERSIONS, DC COIL**

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10% <sup>1)</sup>	Rated coil power mW
5	5	3.75	0.5	70	357
6	6	4.5	0.6	100	360
12	12	9.0	1.2	400	360
24	24	18.0	2.4	1600	360
36	36	27.0	3.6	36001)	360
48	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.

#### COIL OPERATING RANGE DC



# SCHRACK Miniature PCB Relay REL

General Purpose Relays | Low Power PCB Relays

#### **INSULATION DATA**

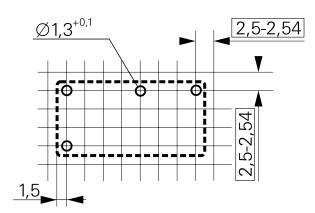
Initial dielectric strength				
Between open contacts	1000V <sub>rms</sub>			
Between contact and coil	3000V <sub>rms</sub>			
Initial insulation resistance				
Open contact circuit	>10x10°Ω			
Coil-contact circuit >10x10°Ω				
Clearance/creepage				
Between contact and coil	≥4/4mm			
Material group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

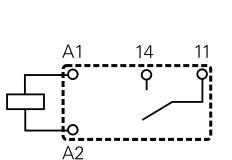
#### **OTHER DATA**

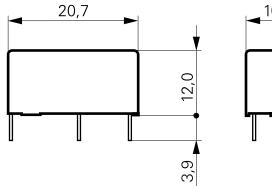
Material compliance	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Suppor Center at www.te.com/customersupport/ rohssupportcenter			
Resistance to heat and fire	according EN60335, par.30			
Ambient temperature	-40 to +85°C			
Category of environmental protection				
IEC 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



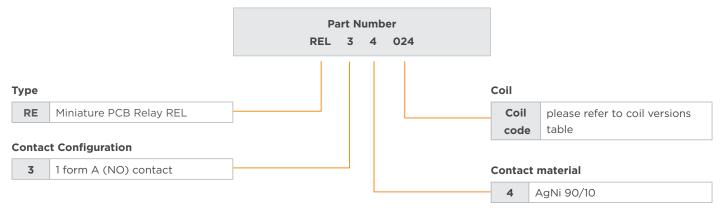




**DIMENSIONS (UNIT: mm)** 



#### **PRODUCT CODE STRUCTURE**



#### **PRODUCT INFORMATION**

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

#### te.com

©2023 TE Connectivity. All Rights Reserved.

TE Connectivity, TE connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this document, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any changes to the information contained herein without prior notice. TE Connectivity assumes only those obligations set forth in the terms and conditions for this product and shall in no event be liable for any incidental, indirect, or consequential damages arising out of the sale, resale, use, or misapplication of the product. TE expressly disclaims any implied warranties with respect to the information contained herein, including, but not limited to, implied warranties of merchantability or fitness for a particular purpose. Dimensions, specifications and/or information contained herein are for reference purposes only and are subject to change without notice. Consult TE for the latest dimensions, specifications and/or information. Users of TE Connectivity products must make their own assessment as to whether the respective product is suitable for the respective desired application.

07/23 ED



# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:

3-1415535-7