

# SCHRACK MINIATURE PCB RELAY RE

# GENERAL PURPOSE LOW POWER PCB RELAYS

## **INTRODUCTION**

TE Connectivity (TE)'s miniature power PCB relays RE is general purpose relay designed for various types of loads (e.g., resistive, inductive) with optimized height. The relay is designed as 1 pole 6A with 1 form A (NO) contact with sensitive coil (200mW) and is in wash tight version.

Other advantages include: high initial dielectric strength, PCB area is only 200mm<sup>2</sup>.

#### **FEATURES**

- 1 pole 6 A, 1 form A (NO) contact
- Sensitive coil 200 mW
- 4 kV coil-contact
- Optimized height 10.6mm
- PCB area 200mm<sup>2</sup>
- Wash tight
- Product in accordance to IEC 60335-1 (domestic appliances)

#### **APPLICATIONS**

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

#### **APPROVALS**

- VDE Cert. No. 40010578
- 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	6A		
Limiting making current, max 4s, duty factor 10%	15A		
Breaking capacity max.	1500VA		
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**

Туре	Contact	Load	Cycles		
IEC 61810					
RE034	A (NO)	6A, 250VAC, cosφ=1, 70°C	100x10 <sup>3</sup>		
UL61810-1	UL61810-1 (UL508)				
RE034	A (NO)	6A, 250VAC,general purpose, 70°C	100x10 <sup>3</sup>		
RE034	RE034 A (NO) B300 pilot duty 40°C		6x10 <sup>3</sup>		
RE034	A (NO)	6A, 30VDC, general purpose, 70°C	100x10 <sup>3</sup>		
Mechanical endurance		>30x10 <sup>6</sup> operations			

#### **ELECTRICAL ENDURANCE**



## COIL 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
005	5	3.5	0.5	125	200
006	6	4.2	0.6	180	200
009	9	6.3	0.9	405	200
012	12	8.4	1.2	720	200
018	18	12.6	1.8	1620	200
024	24	16.8	2.4	2880 1)	200
048	48	33.6	4.8	11520 1)	200

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**



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## **INSULATION DATA**

Initial dielectric strength					
Between open contacts	1000V <sub>rms</sub>				
Between contact and coil	4000V <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				
Tracking index of relay base	PTI250V				

## **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			
Ambient temperature	-40 to +70°C -40 to +85°C at 4A			
Category of environmental protection				
IEC 61810	RTIII - wash tight			
Vibration resistance (functional)	10g			
Terminal type	PCB-THT			
Weight	8 g			
Resistance to soldering heat THT				
IEC 60068-2-20	260°C/5s			
Packaging/unit	tube/25 pcs., box/500 pcs.			

## PCB LAYOUT / TERMINAL ASSIGNMENT

## DIMENSIONS (UNIT: mm)

Bottom view on solder pins









#### **PRODUCT CODE STRUCTURE**



#### **PRODUCT INFORMATION**

Product code	Version	Contacts	Contact material	Coil	TE Part Number
RE034005	wash tight	NO contacts	AgNi 90/10	5 VDC	2-1416010-3
RE034006	wash tight	NO contacts	AgNi 90/10	6 VDC	2-1416010-4
RE034009	wash tight	NO contacts	AgNi 90/10	9 VDC	2-1416010-5
RE034012	wash tight	NO contacts	AgNi 90/10	12 VDC	2-1416010-6
RE034018	wash tight	NO contacts	AgNi 90/10	18 VDC	3-1416010-2
RE034024	wash tight	NO contacts	AgNi 90/10	24 VDC	2-1416010-7
RE035005	wash tight	NO contacts	AgNi 90/10 gold plated	5 VDC	1956226-3
RE035006	wash tight	NO contacts	AgNi 90/10 gold plated	6 VDC	1956226-5
RE035009	wash tight	NO contacts	AgNi 90/10 gold plated	9 VDC	1956226-7
RE035012	wash tight	NO contacts	AgNi 90/10 gold plated	12 VDC	1956226-1
RE035018	wash tight	NO contacts	AgNi 90/10 gold plated	18 VDC	1956226-9
RE035021	wash tight	NO contacts	AgNi 90/10 gold plated	21 VDC	1-1956226-1
RE035024	wash tight	NO contacts	AgNi 90/10 gold plated	24 VDC	1956226-2
RE035048	wash tight	NO contacts	AgNi 90/10 gold plated	48 VDC	1-1956226-3

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