

SCHRACK MINIATURE PCB RELAY PE

GENERAL PURPOSE RELAYS PCB RELAYS

INTRODUCTION

TE Connectivity (TE)'s Miniature Power PCB Relays PE is general purpose relay designed for various types of loads (e.g., resistive, inductive) with low component height. The relay is designed as 1 pole 5A with contact variant 1 form C (CO) and as 1 pole 6 A with contact variant 1 form A (NO).

Other advantages include: high initial dielectric strength, high temperature resistance and sensitive coil.

FEATURES

- 1 pole 5 A, 1 form C (CO) or 6 A, 1 form A (NO) contact
- Cadmium-free contacts
- Sensitive coil 200 mW
- Ambient temperature 85°C
- Low height 10.0 mm
- Plastic materials according to IEC 60335-1 (domestic appliances)

APPLICATIONS

- Industrial electronics
- White goods
- Measurement
- Control

APPROVALS

- VDE Cert. No. 40011901
- UL E214025

Technical data of approved types on request





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CONTACT DATA

Contact arrangement	1 form C (CO) or 1 form A (NO)		
Rated voltage	250VAC		
Max. switching voltage	400VAC		
Rated current	5A (CO - types) 6A (NO - types)		
Breaking capacity max.	1250VA (CO - types) 1500VA (NO - types)		
Contact material	AgNi 90/10, AgSnO ₂		
Frequency of operation with/without load	360/72000 ops/h		
Operate/release time	typ. 8/8ms		
Bounce time, form A/form B	typ. 4/6ms		

CONTACT RATINGS

Туре	Contact	Load	Cycles	
IEC 61810				
PE013	C (CO)	5A, 250VAC, cosφ=1, 85°C	30x10 ³	
PE014/ PE015	C (CO)	5A, 250VAC, cosφ=1, 85°C	100x10 ³	
PE014	A (NO)	5A, 30VDC, 0ms, 85°C	100x10 ³	
PE015	A (NO)	1,5A, 30VDC, 900/h, 50% DF	100x10 ³	
PE034	A (NO)	6A, 250VAC, cosφ=1, 70°C	50x10 ³	
UL61810-1 (UL 508)				
PE013	C (CO)	5A, 240VAC, resistive, 85°C	30x10 ³	
PE014/ PE015	C (CO)	5A, 250VAC, resistive, 85°C	100x10 ³	
PE014	A (NO)	5A, 30VDC, resistive, 85°C	100x10 ³	
PE034	A (NO)	6A, 250VAC, resistive, 70°C	100x10 ³	
PE514	C (CO)	5A, 250VAC, resistive, 85°C	10x10 ³	
Mechanical endurance		>15x10 ⁶ operations		

MAX. DC LOAD BREAKING CAPACITY



ELECTRICAL ENDURANCE



COIL DATA

Coil voltage range	5 to 48 VDC	
Operative range, IEC 61810	2	

COIL VERSIONS, DC COIL

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
003	3	2.25	0.3	45	200
005	5	3.8	0.5	125	200
006	6	4.5	0.6	172	209
009	9	6.8	0.9	405	200
012	12	9.0	1.2	685	210
024	24	18.0	2.4	2725	211
048	48	36.0	4.8	10970	210

COIL OPERATING RANGE DC



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

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INSULATION DATA

Initial dielectric strength					
Between open contacts 1000V _{rms}					
Between contact and coil	4000V _{rms}				
Initial insulation resistance					
Open contact circuit	>10x10°Ω				
Coil-contact circuit	>10x10 ⁹ Ω				
Clearance/creepage					
Between contact and coil	≥3.2/4mm				
Material group of insulation parts	Illa				
Tracking index of relay base	PTI250V				

DIMENSIONS (UNIT: mm)



PCB LAYOUT / TERMINAL ASSIGNMENT

Bottom view on solder pins

1 form C (CO) version





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 RTIII - wash tight		
Vibration resistance (functional), form A/form B	>15/5g		
Shock resistance (destructive)	>100g		
Shock resistance (functional/ 11ms), formA/ form B	>15/5g		
Terminal type	PCB-THT		
Weight	5g		
Resistance to soldering heat THT			
IEC 60068-2-20	260°C/10s (flux proof version)		
IEC 60068-2-20	260°C/5s (wash tight version)		
Packaging/unit	tube/25 pcs., box/500 pcs.		

1 form A (NO) version





PRODUCT CODE STRUCTURE



PRODUCT INFORMATION

Product code	Version	Contacts	Contact material	Coil	TE Part Number
PE013012	AgSnO2 1 form C AgNi 90/10 flux proof AgNi 90/10 AgNi 90/10 gold plated AgNi 90/10 gold plated 1 form A AgNi 90/10		AgSnO₂	12VDC	7-1415539-4
PE014005				5VDC	1393219-3
PE014006				6VDC	1393219-4
PE014012		1 form C	AgNi 90/10	12VDC	1393219-6
PE014024			24VDC	1-1393219-0	
PE014048			48VDC	1-1393219-3	
PE015012				12VDC	1-1393219-4
PE015024		Agini 90/10 gold plated	Agini 90/10 gold plated	24VDC	1-1393219-5
PE034005				5VDC	4-1415535-6
PE034012			AgNi 90/10	12VDC	4-1415535-9
PE034024			24VDC	5-1415535-1	
PE514012	wash tight 1 form C 1 CO contact	A NI: 00 /10	12VDC	2-1393219-0	
PE514024		AgNi 90/10	24VDC	2-1393219-2	
PE515005		wash tight		5VDC	7-1415542-8
PE515012		AgNi 90/10 gold plated	12VDC	7-1415543-1	
PE515024				24VDC	7-1415543-2

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