

# **Miniature PCB Relay RE**

- 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)



F0141-F

Typical applications

PLC's, timers, temperature control, I/O cards, white goods

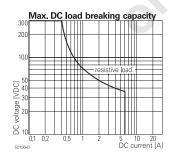


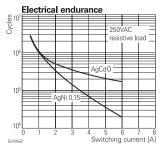
Approvals	
VDE REGNr. 5063, UL E214025	
Technical data of approved types on request	

Contact Data	
Contact arrangement	1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	6A
Limiting making current, max 4s, duty fac	tor 10% 15A
Breaking capacity max.	1500VA
Contact material Ag	CdO, AgNi 0.15, 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

Ountable 1	uungs		
Туре	Contact	Load	Cycles
<b>IEC 61810</b>	)		
RE030	A (NO)	6A, 250VAC, cosφ=1, 70°C	100x10 <sup>3</sup>
RE034	A (NO)	6A, 250VAC, cosφ=1, 70°C	100x10 <sup>3</sup>
UL 508			
RE030	A (NO)	1/4 hp, 240VAC, motor 40°C	30x10 <sup>3</sup>
RE030	A (NO)	B300 pilot duty 40°C	6x10 <sup>3</sup>
RE034	A (NO)	6A, 250VAC, general purpose, 70°C	100x10 <sup>3</sup>
RE034	A (NO)	B300 pilot duty 40°C	6x10 <sup>3</sup>
Mechanica	Lendurano	ce >30x10 <sup>6</sup> ons	



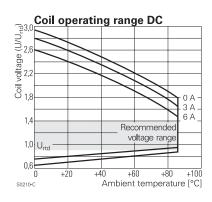


Coil Data		
Coil voltage range	5 to 48 VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL1446	F	

Coil vers	ions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%^{1)}$	mW
5	5	3.5	0.5	125	200
6	6	4.2	0.6	180	200
12	12	8.4	1.2	720	200
18	18	12.6	1.8	1620	200
24	24	16.8	2.4	2880 <sup>1)</sup>	200
48	48	33.6	4.8	11520 <sup>1)</sup>	200
1) 0 - 111 -4	4.50/				

1) Coil resistance ±15%.

All figures are given for coil without pre-energization, at ambient temperature  $+23^{\circ}$ C. Other coil voltages on request.



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 <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	
Tracking index of relay base	PTI250V	



## Miniature PCB Relay RE (Continued)

#### **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 EN 60335, par.30

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

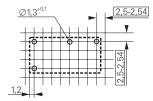
Terminal type
Resistance to soldering heat THT
IEC 60068-2-20

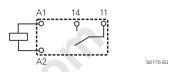
 IEC 60068-2-20
 260°C/5s

 Packaging/unit
 tube/25 pcs.

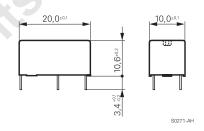
### PCB layout / terminal assignment

Bottom view on solder pins





#### Dimensions



Product code structure		Typical product code	RE	0	3	2	012
Туре							
RE Miniature PCB Relay RE							
Version				_			
0 Wash tight							
Contact configuration					-		
3 1 form A (NO) contact							
Contact material						_	
1 AgNi 0.15	2 AgNi 0.15 gold plated						
<b>4</b> AgNi 90/10	<b>0</b> AgCdO						
Coil							
Coil code: please refer to coil version	ons table						

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Product code	Version	Contacts	Contact material	Coil	Part number
RE030005	wash tight	1 form A	AgCdO	5VDC	1393217-1
RE030006		1 NO contact		6VDC	1393217-2
RE030012				12VDC	1393217-4
RE030024				24VDC	1393217-8
RE030048				48VDC	1-1393217-1
RE032005			AgNi 0,15	5VDC	1-1393217-9
RE032006			gold plated	6VDC	2-1393217-0
RE032012				12VDC	2-1393217-2
RE032024				24VDC	2-1393217-4
RE032048				48VDC	2-1393217-5
RE034005			AgNi 90/10	5VDC	2-1416010-3
RE034006				6VDC	2-1416010-4
RE034012				12VDC	2-1416010-6
RE034024				24VDC	2-1416010-7
RE034048				48VDC	2-1416010-8