

## **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)



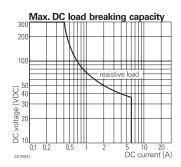
Typical applications

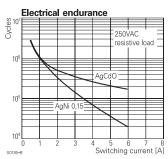
PLC's, timers, temperature control, I/O cards, white goods.

Approvals
VDE Cert. No. 40010578, UL E214025
Technical data of approved types on request.

Contact Data	
Contact arrangement	1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	6A
Limiting making current, max 4s, duty	y factor 10% 15A
Breaking capacity max.	1500VA
Contact material	AgCdO, 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	
Type Contact Load	Cycles

Contact ratings						
Туре	Contact	Load	Cycles			
IEC 6181	0					
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	Mechanical endurance >30x10 <sup>6</sup> ops.					



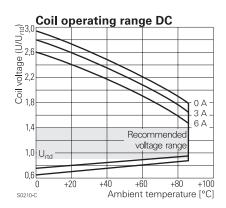


Coil Data		
Coil voltage range	5 to 48 VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL1446	F	

Coil vers	sions, 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	28801)	200
48	48	33.6	4.8	115201)	200

<sup>1)</sup> Coil resistance ±15%

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



1000V <sub>rms</sub>
4000V <sub>ms</sub>
mo
$>10x10^{9}\Omega$
$>10x10^{9}\Omega$
≥4/4mm
IIIa
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 re according EN 60335, par.30

Resistance to heat and fire according EN 600
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

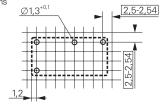
Resistance to soldering heat THT

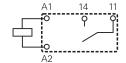
 IEC 60068-2-20
 260°C/5s

 Packaging/unit
 tube/25 pcs.

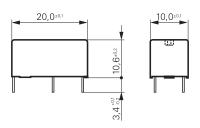
#### PCB layout / terminal assignment

Bottom view on solder pins





#### **Dimensions**



Prod	uct code struc	cture			Typical product code	RE	0	3	2	012
Type	Miniature PCB R	elav RF				J				
Version 0		loldy I IL								
Conta A	act Configuration form A (NO) cont							J		
Conta 1 4	act material AgNi 0.15 AgNi 90/10	2 0	AgNi 0.15 gold plated AgCdO	5 6	AgNi 90/10 gold plated AgCdO gold plated				I	
Coil	Coil code: please	e refer to	coil versions table							J

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

2-1416010-8

48VDC

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