

## **Miniature PCB Relay REL**

- 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)



### Typical applications

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



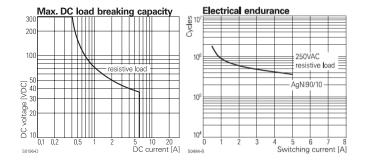
## **Approvals**

VDE Cert. No. 40010579, UL E214025

Technical data of approved types on request.

Contact Data			
Contact arrangement	1 form A (NO)		
Rated voltage	250VAC		
Max. switching voltage	400VAC		
Rated current	5A		
Limiting making current, max 4s, du	ty 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		
Contact ratings			
Type Contact Load		Cycles	

V V I CI I/ V V I	ti loat load		000/12000 opo./11	
Operate/re	elease time	max.	10/5ms	
Bounce tir	ne max.		4ms	
Contact i	ratings			
Туре	Contact	Load		Cycles
<b>IEC</b> 6181	0			
REL34	A (NO)	5A, 250VAC, $\cos \varphi = 1$ ,	85°C	100x10 <sup>3</sup>
REL34	A (NO)	3A, 400VAC, $\cos \varphi = 1$ ,	85°C	400x10 <sup>3</sup>
UL 508				
REL34	A (NO)	5A, 250VAC, resistive,	, 85°C	100x10 <sup>3</sup>
Mechanica	al endurand	ce	>10x10 <sup>6</sup> operations	



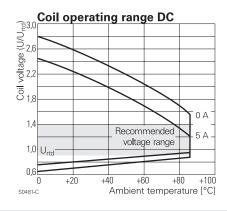
Coil Data		
Coil voltage range	5 to 48VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL1446	F	

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Operative range, IEC 61810	2	
Coil insulation system according UL1446	F	

Coil vers	sions, DC co	II			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%^{1)}$	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

<sup>&</sup>lt;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.



Insulation Data	
Initial dielectric strength	
between open contacts	1000V <sub>rms</sub>
between contact and coil	3000V
Initial insulation resistance	
open contact circuit	$>10x10^{9}\Omega$
coil-contact circuit	>10x10 <sup>9</sup> Ω
Clearance/creepage	
between contact and coil	≥4/4mm
Material group of insulation parts	Illa



## Miniature PCB Relay REL (Continued)

### **Other Data**

**Dimensions** 

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 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 5g

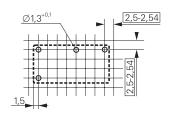
Resistance to soldering heat THT

| EC 60068-2-20 | 270°C/10s

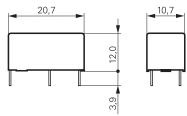
Packaging/unit tube/25 pcs., box/500 pcs.

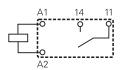
#### PCB layout / terminal assignment

Bottom view on solder pins









REL

3

#### **Product code structure**

 ode structure
 Typical product code

4

024

REL Miniature PCB Relay REL
Contact arrangement

3 1 form A (NO) contact

test meterial

Contact material

4 AgNi 90/10

Coil

Type

Coil code: please refer to coil versions table

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

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