

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.



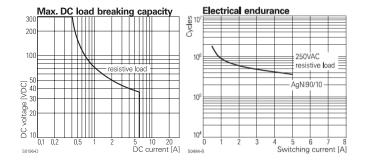
Approvals

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	

with/wit	hout load	360/72000 ops./h	
Operate/re	lease time	max. 10/5ms	
Bounce tin	ne max.	4ms	
Contact ra	atings		
Type	Contact	Load	Cycles
IEC 61810)		
REL34	A (NO)	5A, 250VAC, cosφ=1, 85°C	100x10 ³
REL34	A (NO)	3A, 400VAC, $\cos \varphi = 1$, 85°C	400x10 ³
UL 508			
REL34	A (NO)	5A, 250VAC, resistive, 85°C	100x10 ³
Mechanica	l endurand	ce >10x10 ⁶ operations	



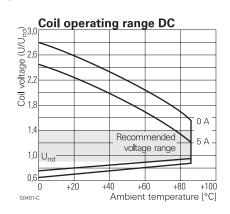
Coil Data		
Coil voltage range	5 to 48VDC	
Operative range, IEC 61810	2	
Coil inculation eyetem according LII 1446	F	

`ni	I versions	· DC c	nil .		

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	3600 ¹⁾	360
48	48	36.0	4.8	6400 ¹⁾	360

¹⁾ 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 _{rms}
between contact and coil	3000V
Initial insulation resistance	mo
open contact circuit	$>10x10^{9}\Omega$
coil-contact circuit	$>10x10^{9}\Omega$
Clearance/creepage	
between contact and coil	≥4/4mm
Material group of insulation parts	Illa



Miniature PCB Relay REL (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 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 5g Weight

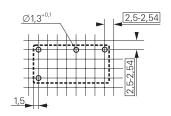
Resistance to soldering heat THT

IEC 60068-2-20 270°C/10s

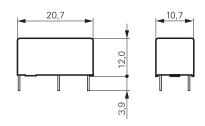
Packaging/unit tube/25 pcs., box/500 pcs.

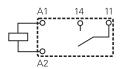
PCB layout / terminal assignment

Bottom view on solder pins



Dimensions





REL

3

Product code structure

Typical product code

024

Type

REL Miniature PCB Relay REL

Contact arrangement

3 1 form A (NO) contact

Contact material

Coil

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

Mouser Electronics

Authorized Distributor

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TE Connectivity:

REL34012 REL34006