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.
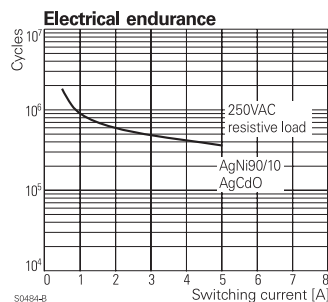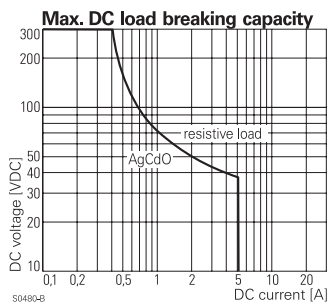
Approvals

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, duty factor 10%	15A
Contact material	AgNi 90/10, AgCdO
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
IEC 61810			
REL30	A (NO)	5A, 250VAC, cosφ=1, 85°C	100×10^3
REL30	A (NO)	3A, 400VAC, cosφ=1, 85°C	400×10^3
REL34	A (NO)	5A, 250VAC, cosφ=1, 85°C	100×10^3
REL34	A (NO)	3A, 400VAC, cosφ=1, 85°C	400×10^3
UL 508			
REL30	A (NO)	5A, 250VAC, general purpose, 85°C	100×10^3
REL30	A (NO)	1/4 hp, 240VAC, Motor 85°C	30×10^3
REL30	A (NO)	B300 pilot duty 40°C	6×10^3
REL34	A (NO)	5A, 250VAC, resistive, 85°C	100×10^3
Mechanical endurance		$>10 \times 10^6$ operations	

Max. DC load breaking capacity

resistive load
AgCdO
DC voltage [VDC]
DC current [A]
S0480-B

Electrical endurance

Cycles
250VAC resistive load
AgNi90/10 AgCdO
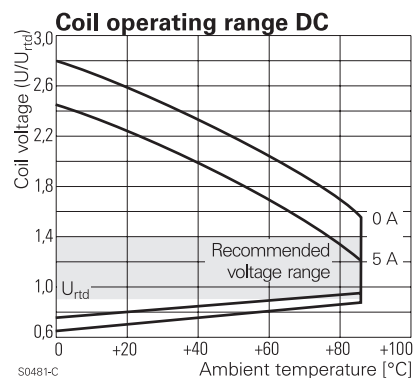Switching current [A]
S0484-B

Coil Data

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

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%[1]	Rated coil power 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.

Coil operating range DC

Coil voltage (U/U$_{rtd}$)
0 A
5 A
Recommended voltage range
U$_{rtd}$
Ambient temperature [°C]
S0481-C

Insulation Data

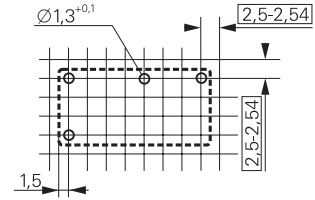|	
Initial dielectric strength	
between open contacts	$1000V_{rms}$
between contact and coil	$3000V_{rms}$
Initial insulation resistance	
open contact circuit	$>10 \times 10^9 \Omega$
coil-contact circuit	$>10 \times 10^9 \Omega$
Clearance/creepage	
between contact and coil	≥4/4mm
Material group of insulation parts	IIIa

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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
Weight	5g
Resistance to soldering heat THT	
IEC 60068-2-20	270°C/10s
Packaging/unit	tube/25

Dimensions

PCB layout / terminal assignment

Bottom view on solder pins
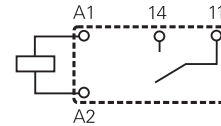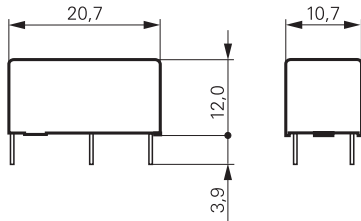
Product code structure

Typical product code | **REL** | **3** | **4** | **024**

Type
REL Miniature PCB Relay REL

Contact arrangement
3 1 form A (NO) contact

Contact material
4 AgNi 90/10   **0** AgCdO

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
REL30006			AgCdO	6VDC	1393218-2
REL30012				12VDC	4-1393217-6
REL30024				24VDC	4-1393217-7
REL30048				48VDC	1393218-3

Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Catalog and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Catalog product data, 'Definitions' section, application notes and all specifications are subject to change.