

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 200mm²
- 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 fac	ctor 10% 15A	
Breaking capacity max.	1500VA	
Contact material	AgNi 0.15, AgNi 90/10	
Frequency of operation, with/without load	d 360/72000 ops./h	
Operate/release time max.	10/5ms	
Bounce time max.	4ms	
Contact ratings		
Type Contact Load		Cycles
IEC 61810		
RE034 A (NO) 6A, 250VAC, cosq	0=1, 70°C	100x10 ³
UL 508		
RE034 A (NO) 6A, 250VAC,gener	ral purpose, 70°C	100x10 ³
RE034 A (NO) B300 pilot duty 40	°C	6x10 ³
Mechanical endurance	>30x10 ⁶ ops.	

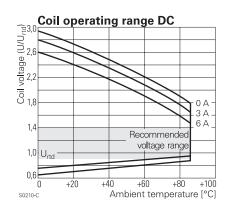


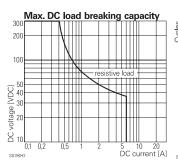


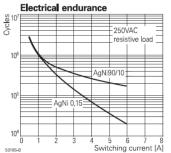
Coil Data							
Coil voltage range 5 to 48 VDC							
Operative	e range, IEC 6	1810		2			
Coil insul	ation system a	according UL1	1446	F			
Coil vers	sions, DC co	il					
Coil	Rated	Operate	Release	Coil	Rated coil		
code	voltage	voltage	voltage	resistance	power		
	VDC	VDC	VDC	$\Omega \pm 10\%^{1)}$	mW		
5	5	3.5	0.5	125	200		
6	6	4.2	0.6	180	200		
9	9	6.3	0.9	405	200		
12	12	8.4	1.2	720	200		
18	18	12.6	1.8	1620	200		
24	24	16.8	2.4	2880 ¹⁾	200		
48	48	33.6	4.8	11520 ¹⁾	200		

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	4000V_ms	
Initial insulation resistance		
open contact circuit	>10x10 ⁹ Ω	
coil-contact circuit	>10x10 ⁹ Ω	
Clearance/creepage		
between contact and coil	≥4/4mm	
Material group of insulation parts	Illa	
Tracking index of relay base	PTI250V	

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

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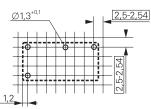


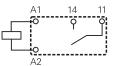
Miniature PCB Relay RE (Continued)

Other Data

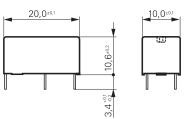
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content						
refer to the Product Compliance Support Center a						
www.te.com	/customersupport/rohssupportcenter					
Resistance to heat and fire	according EN 60335, par.30					
Ambient temperature	-40 to +70°C					
	-40 to +85°C at 4A					
Category of environmental protection						
IEC 61810	RTIII - wash tight					
Vibration resistance (functional)	10g					
Terminal type	PCB-THT					
Resistance to soldering heat THT						
IEC 60068-2-20	260°C/5s					
Packaging/unit	tube/25 pcs., box/500 pcs.					

PCB layout / terminal assignment Bottom view on solder pins





Dimensions



Product code stru	ucture			Typical product code	RE	0	3	2	012
Type RE Miniature PCB	Relav RE								
Version 0 Wash tight]			
Contact Configuration 3 form A (NO) co							J		
Contact material 1 AgNi 0.15 4 AgNi 90/10	2	AgNi 0.15 gold plated	5	AgNi 90/10 gold plated				1	
Coil Coil code: plea	.se refer to	o coil versions table							J

Product code	Version	Contacts	Contact material	Coil	Part Number
RE031005	wash tight	NO contacts	AgNi 0.15	5VDC	2-1415402-1
RE031006				6VDC	1-1393217-3
RE031012				12VDC	1-1393217-5
RE031024				24VDC	1-1393217-8
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
RE035012			AgNi 90/10 gold plated	12VDC	1956226-1
RE035024				24VDC	1956226-2

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