

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)



F0141-R

Typical applications

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

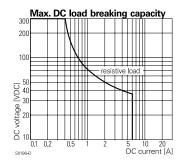


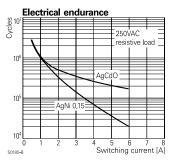
Approvals
VDE REGNr. 5063, cULus E214025
Technical data of approved types on request

Contact Data					
Contact arrangement	1 form A (NO)				
Rated voltage	250VAC				
Max. switching voltage	400VAC				
Rated current	6A				
Limiting making current, max 4s, duty factor 10% 15A					
Breaking capacity max.	1500VA				
Contact material	AgCdO, AgNi 0.15, AgNi 90/10				
Frequency of operation, with/without lo	ad 360/72000 ops./h				
Operate/release time max.	10/5ms				
Bounce time max.	4ms				

Contact ratings

Contact	raunys		
Type	Contact	Load	Cycles
IEC 6181	0		
RE030	A (NO)	6A, 250VAC, cosφ=1, 70°C	100x10 ³
RE034	A (NO)	6A, 250VAC, cosφ=1, 70°C	100x10 ³
UL 508			
RE030	A (NO)	1/4 hp, 240VAC, motor 40°C	$30x10^3$
RE030	A (NO)	B300 pilot duty 40°C	6x10 ³
RE034	A (NO)	6A, 250VAC, general purpose, 70°C	100x10 ³
RE034	A (NO)	B300 pilot duty 40°C	6x10 ³
Mechanic	al enduran	ce >30x10 ⁶ ops.	



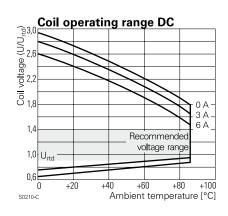


Coil Data		
Coil voltage range	5 to 48 VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL1446	F	

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	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 $+23^{\circ}$ C. Other coil voltages on request.



Insulation Data		
Initial dielectric strength		
between open contacts	1000V _{rms}	
between contact and coil	4000V _{rms}	
Initial insulation resistance		
open contact circuit	$>10x10^{9}\Omega$	
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	

260°C/5s tube/25 pcs.



Terminal type

Packaging/unit

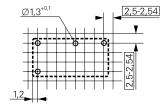
IEC 60068-2-20

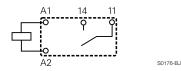
Resistance to soldering heat THT

Miniature PCB Relay RE (Continued)

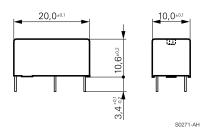
Other Data Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.tycoelectronics.com/customersupport/rohssupportcenter according EN 60335, par.30 Resistance to heat and fire Ambient temperature -40 to +70°C -40 to +85°C at 4A Category of environmental protection IEC 61810 RTIII - wash tight Vibration resistance (functional) 10g PCB-THT

PCB layout / terminal assignment Bottom view on solder pins





Dimensions



Product code structure RE 2 012 Typical product code 0 3 Type RE Miniature PCB Relay RE Version Wash tight n **Contact configuration** 3 1 form A (NO) contact Contact material AgNi 0.15 AgNi 0.15 gold plated AgNi 90/10 AgCdO Coil Coil code: please refer to coil versions table

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				48VDC	2-1416010-8