Kaimeite Electronic (HK) Co., Limited
First choice One-Stop Mixed Distributor for World-Class manufacturer Email: info@kaimte.com Website: www.kaimte.com

Click to view price, real time Inventory, Delivery & Lifecycle Information;

RT314F24

TE Connectivity / Schrack

General Purpose Relays SPDT 24VDC 16Amps

Any questions, please feel free to contact us. info@kaimte.com



Power PCB Relay RT1 bistable

- 1 pole 16A, 1 form C (CO) or 1 form A (NO) contact
- Polarized bistable version with 1 or 2 coils
- 5kV/10mm coil-contact
- **■** Reinforced insulation
- WG version: product in accordance to IEC 60335-1

Typical applications

Battery powered equipment or applications with "memory function"



F0176-C

650





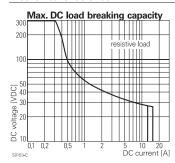
Approvals
VDE Cert. No. 40007571, UL E214025, cCSAus 1142018
Technical data of approved types on request

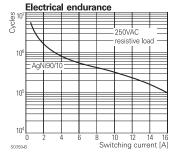
Contact Data	12A	16A			
Contact arrangement	1 form C (CC) or 1 form A (NO)			
Rated voltage	250VAC				
Max. switching voltage		400VAC			
Rated current	12A	16A			
Limiting continuous current	12A	16A, UL: 20A			
Limiting making current,					
max. 4s, duty factor 10%	25A	30A			
Breaking capacity max.		4000VA			
Contact material		AgNi 90/10			
	Ag	Ni 90/10 gold plated			
Frequency of operation, with/w	ithout load	360/72000h ⁻¹			
Operate/Reset time max.		10/10ms			
Bounce time max., form A/forn	n B	3/6ms			

Contact ratings

Туре	Contact	Load	Cycles
IEC 61810)		
RT1*4	A (NO)	12A, 250VAC resistive, 85°C	30x10 ³
RT1*4	C (CO)	12A, 250VAC resistive, 85°C	10x10 ³
RT314	A (NO)	16A, 250VAC resistive, 85°C	30x10 ³
RT314	C (CO)	16A, 250VAC resistive, 85°C	10x10 ³
UL 508			
RT1*4	A (NO)	12A, 250VAC, general purpose, 85°C	50x10 ³
RT**4	A (NO)	R300, 85°C	100x10 ³
RT314	A/B (NO/NC)	20A, 250VAC, general purpose, 85°C	6x10 ³
RT334	A (NO)	16A, 250VAC, general purpose, 85°C	50x10 ³
RT314	A (NO)	1hp, 240VAC, 40°C	1x10 ³
		·	

	_
Mechanical endurance	>5x10 ⁶ operations





Coil Data, bistable coils	1 coil	2 coils
Magnetic system	polariz	ed, bistable
Coil voltage range	3 to	36VDC
Operative range, IEC 61810		2
Limiting voltage, % of rated coil voltage	ge 120%	150%
Min./Max. energization duration	30ms/1min at	<10% duty factor
Coil insulation system according UL1	446 c	lass F

Coil ver	sions, bistab	le coil			
Coil code	Rated voltage VDC	Set voltage VDC	Reset voltage VDC	Coil resistance Ω±10%	Rated coil power mW
bistable		VDO	VDO	3211070	11100
A03	3	2.1	1.7	21	429
A05	5	3.5	2.8	62	403
A06	6	4.2	3.3	90	400
A12	12	8.4	6.6	360	400
A24	24	16.8	13.2	1440	400
bistable	2 coils				
F03	3	2.1	1.7	15	600
F05	5	3.5	2.8	42	595
F06	6	4.2	3.3	55	655
F09	9	6.3	5.0	135	600
F12	12	8.4	6.6	240	600
F24	24	16.8	13.2	886	650

All figures are given for coil without pre-energization, at ambient temperature +23°C. Other coil voltages on request.

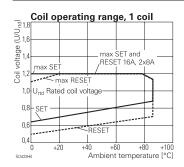
25.2

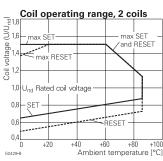
Bistable coils - operation

36

Distable colls - operation					
Version	1 (coil	2	coils	
Coil terminals	A1	A2	A1	A3 A	2
Operate	+	-		+ -	
Reset	-	+	-	+	
Contact position not defined at delivery					

19.8





1994



Power PCB Relay RT1 bistable (Continued)

Insulation Data	
Initial dielectric strength	
between open contacts	$1000V_{rms}$
between contact and coil	5000V _{rms}
Clearance/creepage	
between contact and coil	≥ 10/10mm
Material group of insulation parts	Illa
Tracking index of relay base	PTI 250V

Other	D	a	ta
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Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature -40 to 85°C

Category of environmental protection

IEC 61810 RTII - flux proof, RTIII - wash tight

Vibration/shock resistance (functional),

opening B contact 3/5g opening closed A contact 6/15g Shock resistance (destructive) 100g

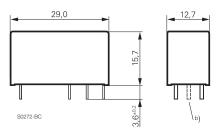
Other Data (continued)	
Terminal type	PCB-THT, plug-in ¹⁾
Weight	14g
Resistance to soldering heat	THT, IEC 60068-2-20
RTII - flux proof	270°C/10s
RTIII - wash tight	260°C/5s
Packaging/unit	tube/20 pcs., box/500 pcs.
1) pookot available for 1 poil version	a only one Acceptation

Accessories

For 1 coil version,

NOTE: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1); for relays mounted on sockets deratings may apply.

Dimensions

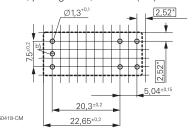


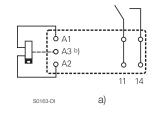
- a) Indicated contact position during or after coil energization with reset voltage.
- b) for 2 coil version only

PCB layout / terminal assignment

Bottom view on solder pins

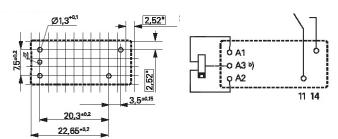
16A, pinning 5mm, 1 form A (NO) contact



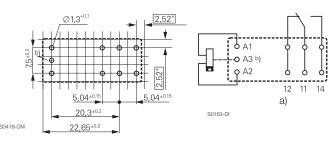


*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.

12A, pinning 3,5mm, 1 form A (NO) contact



16A, pinning 5mm, 1 form C (CO) contact



*) With the recommended PCB hole sizes a grid pattern from 2.5mm to 2.54mm can be used.



Power PCB Relay RT1 bistable (Continued)

Product code structure		Typical product code RT 3	1	4	F24
Туре					
RT Power PCB Relay RT1 bista	le				
Version					
1 12A, pinning 3,5mm, flux pro	of 3 16A, pinning 5mm, flux proof	D 16A, pinning 5mm, wash tight			
Contact configuration					
1 1 form C (CO) contact	3 1 form A (NO) contact				
Contact material					
4 AgNi 90/10	5 AgNi 90/10 gold plated				
Coil					
Coil code: please refer to coil ver	sions table				

Version

Blank Standard version

WG Product in accordance with IEC 60335-1 (domestic appliances)

Product code	Version	Contacts	Contact material	Coil version	Coil	Part number
RT315A03WG	16A,	1 form C (CO)	AgNi 90/10 gold plated	Bistable 1 coil	3VDC	8-1415545-5
RT314A03	pinning 5mm,	contact	AgNi 90/10		3VDC	7-1393239-7
RT314A05	flux proof				5VDC	7-1393239-8
RT314A06					6VDC	7-1393239-9
RT314A12					12VDC	8-1393239-0
RT314A24WG					24VDC	1415539-5
RT314F03				Bistable 2 coils	3VDC	8-1393239-4
RT314F05					5VDC	8-1393239-5
RT314F06					6VDC	8-1393239-6
RT314F09					9VDC	6-1415351-1
RT314F12					12VDC	8-1393239-7
RT314F24					24VDC	8-1393239-8
RT314F36					36VDC	8-1393239-9
RTD14F03	16A,				3VDC	5-1393238-7
RTD14F12	pinning 5mm,				12VDC	5-1393238-8
RTD15F05	wash tight		AgNi 90/10 gold plated		5VDC	1415538-8
RT134F12	12A,	1 form A (NO)	AgNi 90/10		12VDC	1415544-5
RT134F24	pinning 3,5mm,	contact			24VDC	4-1415382-1
RT114F12	flux proof	1 form C (CO)			12VDC	6-1415543-8
RT114F24		contact			24VDC	5-1415400-1

Other types on request.

This list represents the most common types and does not show all variants covered by this datasheet.