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8-1393239-8

TE Connectivity

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

	-
Appro	vals

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

Contact Data	12A	16A	
Contact arrangement	1 form C (CO)	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	
	Agl	Ni 90/10 gold plated	
Frequency of operation, with/w	rithout load	360/72000h-1	
Operate/Reset time max.		10/10ms	
Bounce time max., form A/form	n B	3/6ms	

Contact	ratings		
Туре	Contact	Load	Cycles
IEC 6181	0		
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

Cycles

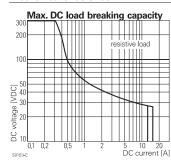
10

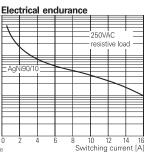
10

10⁴

Mechanical endurance

>5x10⁶ operations





Coil Data, bistable coils 2 coils 1 coil Magnetic system polarized, bistable 3 to 36VDC Coil voltage range Operative range, IEC 61810 2 150% 120% Limiting voltage, % of rated coil voltage Min./Max. energization duration 30ms/1min at <10% duty factor Coil insulation system according UL1446 class F

Coil versions, bistable coil

Coil	Rated	Set	Reset	Coil	Rated coil				
code	voltage	voltage	voltage	resistance	power				
	VDC	VDC	VDC	Ω±10%	mW				
bistable	1 coil								
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				
F36	36	25.2	19.8	1994	650				
All figures a	are given for coil	without pre-ener	gization, at amb	ient temperature	+23°C.				

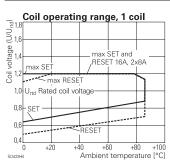
Other coil voltages on request.

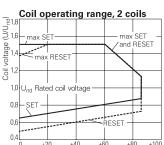
Bistable coils - operation

Distable colls - operation					
Version	1 (coil		2 coils	
Coil terminals	A1	A2	A1	A3	A2
Operate	+	-		+	-
Reset	-	+	-	+	

S0429-B

Contact position not defined at delivery





+40 +60 +80 +100 Ambient temperature [°C]

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

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



Power PCB Relay RT1 bistable (Continued)

1000V _{rms}	
5000V _{rms}	
≥ 10/10mm	
Illa	
PTI 250V	
	5000V _{rms} ≥ 10/10mm Illa

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at <u>www.te.com/customersupport/rohssupportcenter</u> Ambient temperature -40 to 85°C

Category of environmental protection						
IEC 61810	RTII - flux proof, RTIII - wash tight					
Vibration/shock resistance (functiona	al),					
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) socket available for 1 coil version only, see Accessories.					

Accessories

For 1 coil version,

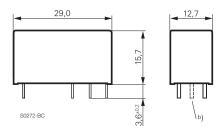
 details see datasheet
 Accessories Industrial Power Relay RT

 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.

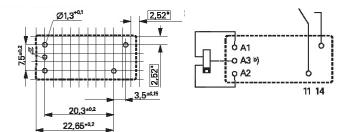
Dimensions



a) Indicated contact position during or after coil energization with reset voltage.

b) for 2 coil version only

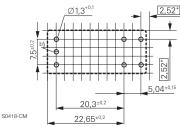
12A, pinning 3,5mm, 1 form A (NO) contact



PCB layout / terminal assignment

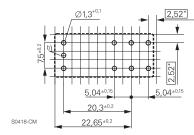
Bottom view on solder pins

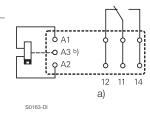
16A, pinning 5mm, 1 form A (NO) contact





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





ο Α1 ο Α3 ^b) ο Α2

S0163-DI

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a)

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

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Power PCB Relay RT1 bistable (Continued)

Prod	luct code structure			Тур	ical product code	RT	3	1	4	F24
Туре						1				
	RT Power PCB Relay RT1 bistable									
Versio	on									
	1 12A, pinning 3,5mm, flux proof	3	16A, pinning 5mm, flux proof	D	16A, pinning 5n	nm, wasł	n tight			
Conta	act configuration							_		
	1 1 form C (CO) contact	3	1 form A (NO) contact							
Conta	act material									
	4 AgNi 90/10	5	AgNi 90/10 gold plated							
Coil										
	Coil code: please refer to coil versions tak	ole								

Version

Blank

WG

Standard version

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

Product code	Version	Contacts	Contact material	Coil version	Coil	Part number
						1
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.

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