

Power PCB Relay RT2 bistable

- 2 pole 8 A, 2 CO contacts
- Polarized bistable version with 1 or 2 coils
- 5 kV / 10 mm coil-contact
- Reinforced insulation
- RoHS compliant (Directive 2002/95/EC) as per product date code 0413

Applications

Battery powered equipment or applications with "memory function" (e.g. mains failure)



F0219-B

Approvals	
▲ REGNr. 6106, CPU us E214025, @ 1438	35
Technical data of approved types on request	
Contact data	
Contact configuration	2 0 0

Contact configuration	2 CO
Contact set	single contact
Type of interruption	micro disconnection
Rated current	8 A, UL: 10 A
Rated voltage / max.switching voltage AC	240/400 VAC
Limiting continuous current	UL: 10 A
Maximum breaking capacity AC	2000 VA
Limiting making capacity, max 4 s, duty factor 10%	15 A
Contact material	AgNi 90/10
Mechanical endurance	> 2 x 10 ⁶ cycles
Rated frequency of operation with / without load	15 / 1200 min ⁻¹
Rated voltage / max.switching voltage AC Limiting continuous current Maximum breaking capacity AC Limiting making capacity, max 4 s, duty factor 10% Contact material Mechanical endurance	240/400 VAC UL: 10 A 2000 VA 15 A AgNi 90/10 > 2 x 10 ⁶ cycles

1 coil

typ 400 mW

120%

5...24 VDC

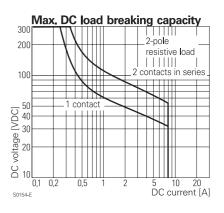
30 ms 1 min at < 10% DF

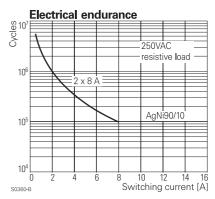
class F

2 coils

typ 600 mW

150%





Coil versions, bistable DC-coil

Minimum energization duration

Maximum energization duration Coil insulation system according UL1446

Limiting voltage, % of rated coil voltage

Coil data

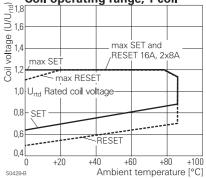
Coil power Operative range

Rated coil voltage range

	50113, 513(45)6				
Coil	Rated	Operate	Reset	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDČ	VDČ	VDČ	Ω	mW
bistable,	1 coil				
A05	5	3.5	2.8	62±10%	403
A06	6	4.2	3.3	90±10%	400
A12	12	8.4	6.6	360±10%	400
A24	24	16.8	13.2	1440±10%	400
bistable,	2 coils				
F05	5	3.5	2.8	42±10%	595
F06	6	4.2	3.3	55±10%	655
F12	12	8.4	6.6	240±10%	600
F24	24	16.8	13.2	886±10%	650
All figure	s are given for	coil without pree	nergization, at ar	nbient temperature	+23°C

All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request

Coil operating range, 1 coil



Datasheet Rev. GG1 Issued 2007/07 www.tycoelectronics.com www.schrackrelays.com Dimensions are in mm unless otherwise specified and are shown for reference purposes only. Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

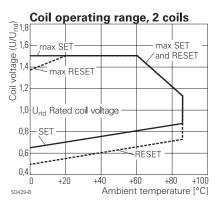
Specifications subject to change.

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Power PCB Relay RT2 bistable (Continued)

Coils operation

Version	1 c	oil	2 coils				
Coil terminals A	\1	A2		A1	A	.3	A2
Pull-in	+	-			-	+	-
Reset	-	+		-	-	+	
Contact position not defined at delivery							
Insulation							
Dielectric strength coil-contact circuit				5000	Vrms		
open contact circuit				1000 \	Vrms		
adjacent contact circuits			2500	Vrms			
Clearance / creepage coil-contact circuit		≥	: 10 / 1	0 mm			
adjacent contact circu			$\geq 3 / 4$	mm			
Material group of insulation parts				\geq	а		
Tracking index of relay base				PTI 25	0 V		
Insulation to IEC 60664-1							
Type of insulation coil-contact circuit				reinfor	ced		
open contact circu	it			functio	onal		
adjacent contact c	ircu	its		basi	С		
Rated insulation voltage				250	V		
Pollution degree			3			2	
Rated voltage system			240 V			400	V
Overvoltage category							



Other data

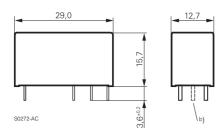
RoHS - Directive 2002/95/EC	compliant as per product date code 0413
Flammability class according to UL94	V-0
Ambient temperature range	-40+85°C
Operate- / release time	typ 5 / 3 ms
Bounce time NO / NC contact	typ 1 / 4 ms
Vibration / shock resistance (function) open	ing NC contact 3 / 5 g
opening closed NO contact	6 / 15 g
Shock resistance (destruction)	100 g
Category of protection	RTII - flux-proof
Mounting	pcb or on socket *)
Mounting distance DC / AC coils	0 mm
Resistance to soldering heat	270°C / 10 s
Relay weight	13 g
Packaging unit DC coil, bistable 1 coil	20 / 500 pcs
bistable 2 coils	100 pcs

*) socket available for 1 coil version only, see Accessories

Accessories

For 1-coil version, details see datasheet

Dimensions



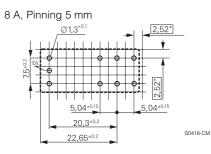
 a) Indicated contact position while or after coil energization with reset voltage.

accessories RT

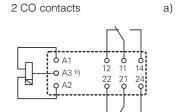
b) for 2 coil version only

PCB layout / terminal assignment

Bottom view on solder pins



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



S0163-CL

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Product key	RT	4	2	4	
Туре					
Version					
4 8 A, pinning 5 mm, flux proof					
Contact configuration					
2 2 CO contacts					
Contact material					
4 AgNi 90/10					
Coil					
Coil code: please refer to coil versions table, preferred types in bold print					

Product key	Version	Contacts	Cont. material	Coil	Coil	Part number
RT424A12	8 A	2 CO contacts	AgNi 90/10	bistable	12 VDC	4-1393243-6
RT424A24	pinning 5 mm		-	1 coil	24 VDC	4-1393243-7
RT424F12	flux tight			bistable	12 VDC	5-1393243-4
RT424F24				2 coils	24 VDC	5-1393243-6

Specifications subject to change.

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