

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

REGNr. 6106, c us E214025, 6 14385	Approvals			
14303 TLC11. 0100, C 2 14 023, c us 14303	REGNr.	6106, c	us E214025,	® 14385

Technical data of approved types on request

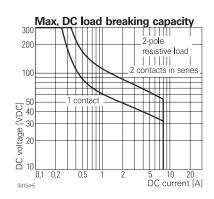
Contact data	
Contact configuration	2 CO
Contact set	single contact
Type of interruption	micro disconnection
Rated current	8 A, UL: 10 A
Rated voltage / max.switching voltage AC	240/400 VAC
Limiting continuous current	UL: 10 A
Maximum breaking capacity AC	2000 VA
Limiting making capacity, max 4 s, duty 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

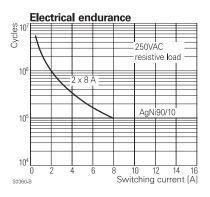
Coil data	1 coil	2 coils		
Rated coil voltage range	524	VDC		
Coil power	typ 400 mW	typ 600 mW		
Operative range	2			
Limiting voltage, % of rated coil voltage	120%	150%		
Minimum energization duration	30	ms		
Maximum energization duration	1 min at < 10% DF			
Coil insulation system according UL1446	class F			

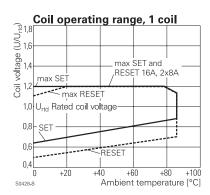
Coil versions, bistable DC-coil

Coil	Rated	Operate	Reset	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	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	a are given for	acil without prop	porgization at an	phiant tamparatura	. 2200

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







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.



Power PCB Relay RT2 bistable (Continued)

Coils operation

Version	1 (coil	2 coils		
Coil terminals	A1	A2	A1	А3	A2
Pull-in	+	-		+	-
Reset	-	+	-	+	
Contact position not defined at delivery					

Contact position not defined at delivery

Insulation	
Dielectric strength coil-contact circuit	5000 V _{rms}
open contact circuit	1000 V _{rms}
adjacent contact circuits	2500 V _{rms}
Clearance / creepage coil-contact circuit	≥ 10 / 10 mm
adjacent contact circuits	≥ 3 / 4 mm
Material group of insulation parts	≥ IIIa
Tracking index of relay base	PTI 250 V

Insulation to IEC 60664-1 Type of insulation coil-contact circuit reinforced open contact circuit functional

basic 250 V adjacent contact circuits Rated insulation voltage

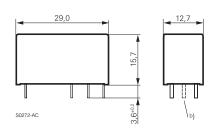
Pollution degree Rated voltage system 240 V 400 V Overvoltage category Ш

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) opening	ng 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
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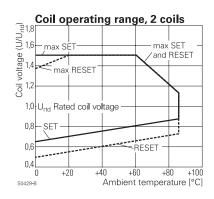
^{*)} socket available for 1 coil version only, see Accessories

Accessories For 1-coil version, details see datasheet accessories R1

Dimensions



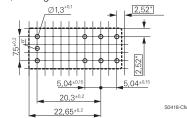
- a) Indicated contact position while or after coil energization with reset voltage.
- b) for 2 coil version only



PCB layout / terminal assignment

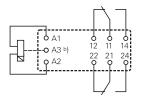
Bottom view on solder pins

8 A, Pinning 5 mm



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

2 CO contacts



S0163-CL

a)

2

'Schrack' section.



General Purpose Relays SCHRACK

Power PCB Relay RT2 bistable (Continued)



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

'Schrack' section.