

Electronics

SCHRACK

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

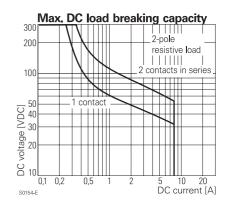
Contact data	
Contact configuration	2 CO
Contact set	single contact
Type of interruption	micro disconnection
Rated current	8 A, UL: 10 A
Rated voltage / max.switching voltage AC	240/400 VAC
Limiting continuous current	UL: 10 A
Maximum breaking capacity AC	2000 VA
Limiting making capacity, max 4 s, duty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

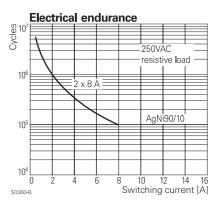
Coil data	1 coil	2 coils	
Rated coil voltage range	524 VDC		
Coil power	typ 400 mW	typ 600 mW	
Operative range	2		
Limiting voltage, % of rated coil voltage	120%	150%	
Minimum energization duration	30 ms		
Maximum energization duration	1 min at < 10% DF		
Coil insulation system according UL1446	class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

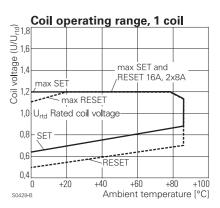
Coil versions, bistable DC-coil

F 12	12	0.4	0.4	240±1076	
F12	12	8.4	8.4	240±10%	600
F06	6	4.2	4.2	55±10%	655
F05	5	3.5	3.5	42±10%	595
bistable,	, 2 coils				
A24	24	16.8	16.8	1440±10%	400
A12	12	8.4	8.4	360±10%	400
A06	6	4.2	4.2	90±10%	400
A05	5	3.5	3.5	62±10%	403
bistable,	, 1 coil				
	VDC	VDC	VDC	Ω	mW
code	voltage	voltage	voltage	resistance	power
Coil	Rated	Operate	Reset	Coil	Rated coil

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









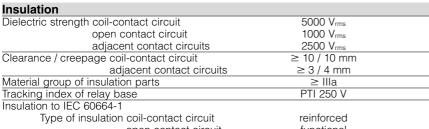




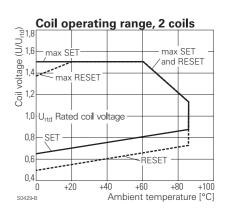
Power PCB Relay RT2 bistable (Continued)

Coils operation

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



open contact circuit functional adjacent contact circuits basic
Rated insulation voltage 250 V
Pollution degree 3 2
Rated voltage system 240 V 400 V
Overvoltage category III



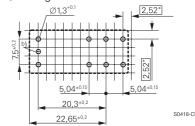
Other data					
RoHS - Directive 2002/95/EC compliant as per product date code					
Flammability class according to UL94	V-0				
Ambient temperature range	-40+85°C				
Operate- / release time typ 5 / 3 ms					
Bounce time NO / NC contact typ 1 / 4 ms					
Vibration / shock resistance (function) opening	g 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				

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

PCB layout / terminal assignment

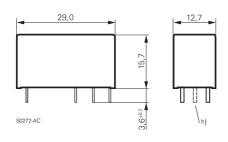
Bottom view on solder pins

8 A, Pinning 5 mm

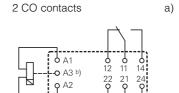


*) With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.

Dimensions

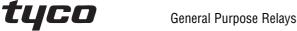


- a) Indicated contact position while or after coil energization with reset voltage.
- b) for 2 coil version only



S0163-CL

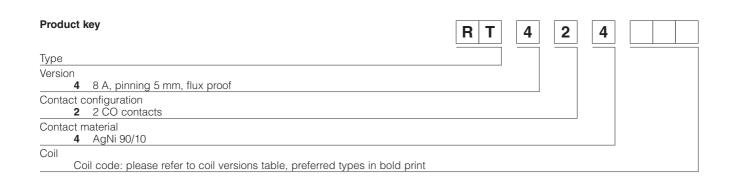
'Schrack' section.







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.