

Electronics

Power PCB Relay RT1 bistable

- 1 pole 16 A, 1 CO contact
- 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"



F0176-B

SCHRACK

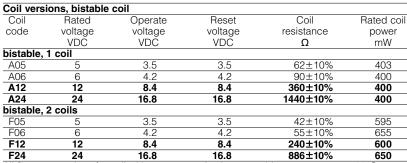
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Technical data of approved types on request

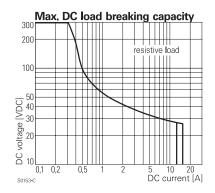
Contact data	
Contact configuration	1 CO contatct
Contact set	single contact
Type of interruption	micro disconnection
Rated current	16 A
Rated voltage / max.switching voltage AC	240/400 VAC
Limiting continuous current	20 A
Maximum breaking capacity AC	4000 VA
Limiting making capacity, max 4 s, duty factor 10%	30 A
Contact material	AgNi 90/10
Mechanical endurance	> 5 x 10 ⁶ cycles
Rated frequency of operation with / without load	6 / 1200 min ⁻¹

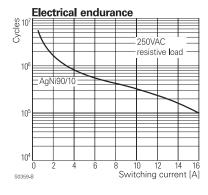
Contac	t ratings	
Туре	Load	Cycles
RT314	20 A, 250 VAC, NO contact, 85°C, UL508	6x10 ³
RT314	Pilot duty A300 (NO contact), B300 (CO/NC contact), UL508	
RT314	1hp @ 240 VAC, 1/2hp @ 120 VAC, NO contact, UL508	

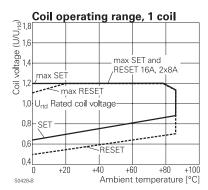
Coil data	1 coil	2 coils		
Rated coil voltage range DC coil	524 VDC			
Coil power	typ 400 mW	typ 600 mW		
Operative range	2			
Limiting voltage, % of rated coil voltage	120%	150%		
Minimum energization duration	30	ms		
Maximum energization duration	1 min at < 10% DF			
Coil insulation system according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



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







Datasheet Rev. FE1 Issued 2006/05 www.tycoelectronics.com www.schrackrelays.com

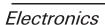
Dimensions are in mm unless otherwise specified and are shown for reference purposes

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 RT1 bistable (Continued)

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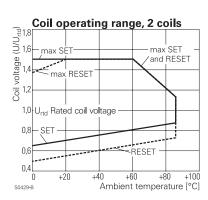
Coils operation

Version	1 coil 2 c		2 coils	
Coil terminals	A1	A2	A1 A3 A2	
Pull-in	+	-	+ -	
Reset	-	+	- +	
Contact position not defined at delivery				

Insulation

Overvoltage category

Dielectric strength coil-contact circuit	5000) V _{rms}
open contact circuit	1000) V _{rms}
Clearance / creepage coil-contact circuit	≥ 10 /	10 mm
Material group of insulation parts	≥	Illa
Tracking index of relay base	PTI 2	250 V
Insulation to IEC 60664-1		
Type of insulation coil-contact circuit	reinfo	orced
open contact circuit	funct	ional
Rated insulation voltage	250	O V
Pollution degree	3	2
Rated voltage system	240 V	400 V



Other data	
RoHS - Directive 2002/95/EC	compliant as per product date code 0413
Flammability class according to UL94	V-0
Ambient temperature range 1 coil	-10+85°C
2 coils	-40+85°C
Operate- / reset time	typ 5 / 4 ms
Bounce time NO / NC contact	typ 1 / 3 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	0 mm
Resistance to soldering heat flux-proof version	n 270 °C / 10 s
Relay weight	14 g
Packaging unit 1 coil	20 / 500 pcs
2 coils	100 pcs

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

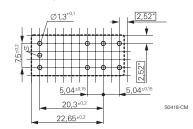
Accessories

For 1 coil version, details see datasheet	Accessories Power Relay RT
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PCB layout / terminal assignment

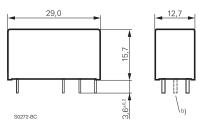
Bottom view on solder pins

16 A, pinning 5 mm

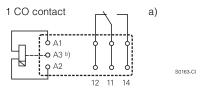


*) With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.

Dimensions



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



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Product key	RT	3	1	4		
Туре						
Version						
3 16 A, pinning 5 mm, flux proof						
Contact configuration						
1 1 CO contact						
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
RT314A12	16 A	1 CO contact	AgNi 90/10	bistable	12 VDC	8-1393239-0
RT314A24	pinning 5 mm			1-coil	24 VDC	8-1393239-1
RT314F12	flux proof			bistable	12 VDC	8-1393239-7
RT314F24	· ·			2-coils	24 VDC	8-1393239-8

'Schrack' section.