

Power PCB Relay RT1 bifurcated

- 1 pole 12 / 16 A, 1 CO or 1 NO contact
- Sensitive DC-coil, 200 or 400 mW
- 5 kV / 10 mm coil-contact, reinforced insulation
- Ambient temperature 85°C
- RoHS compliant (Directive 2002/95/EC)

Applications

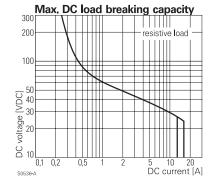
switching from dry circuit up to 16 A, including arc-less switching, with extra high reliability



F0144-B

Approvals
REGNr. 6106, c
Technical data of approved types on request

Contact data			
Contact configuration	1 CO or 1 NC	contact	
Contact set	bifurcated contact		
Type of interruption	micro discon	nection	
Rated current	12 A ¹⁾	16 A	
Rated voltage / max.switching voltage AC	250/400 \	/AC	
Maximum breaking capacity AC	3000 VA	4000 VA	
Limiting making capacity, max 4 s, df 10%	16 A		
Contact material	AgNi 90/10 gold plated		
Mechanical endurance	> 30 x 10 ⁶ (cycles	
Rated frequency of operation with / without I	load 6 / 600 m	nin ⁻¹	
1) recommended for switching load range ≤	5 A		



Contact ratings

Туре	Load	Cycles
RT33C	16 A, 250 VAC, NO contact, 85°C	50x10 ³
RT31C	10 mA, 24 V, CO contact, contact voltage drop < 0.1 V	10x10 ⁶
RTB8D	12 A, 250 VAC, NO contact, 85°C	6x10 ³
RTB7D	5A, 250 VAC, CO contact, 85°C	100x10 ³
RTB7D	10 mA, 5V, CO contact, contact voltage drop < 0.5 V	1x10 ⁶
RTB7D	10 mA, 24V, CO contact, contact voltage drop < 1 V	4x10 ⁶

Coil data	12 A version	16 A version
Rated coil voltage range	560 VDC	5110 VDC
Coil power	typ 200 mW	typ 400 mW
Operative range	2	



Power PCB Relay RT1 bifurcated (Continued)

Rated coil

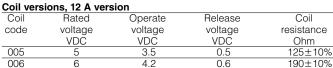
power

mW

Coil insulation system according UL1446 class F

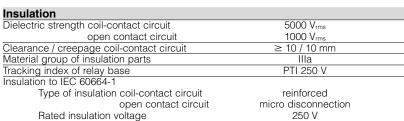
Coil vers	ions, 16 A ver	sion			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ohm	mW
005	5	3.5	0.5	62±10%	403
006	6	4.2	0.6	90±10%	400
012	12	8.4	1.2	360±10%	400
024	24	16.8	2.4	1440±10%	400
048	48	33.6	4.8	5520±10%	417
060	60	42.0	6.0	8570±12%	420
110	110	77.0	11.0	28800±12%	420

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

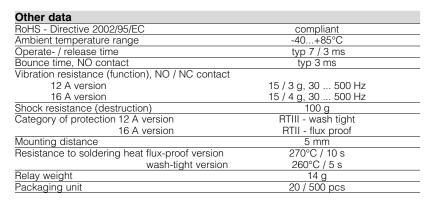


200 190±10% 190 012 12 8.4 1.2 690±10% 210 024 24 16.8 2.4 2980±10% 190 048 48 33.6 4.8 10470±10% 220 60 42.0 210 060 6.0 16980±10%

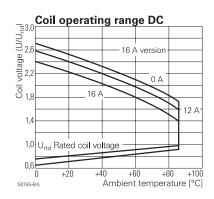
All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request

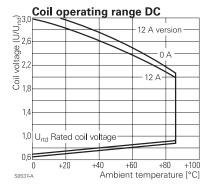


Pollution degree 12 A version 3 3 16 A version 3 2 Rated voltage system 250 V 400 V Overvoltage category III



Accessories	
For details see datasheet	Accessories Power Relay RT



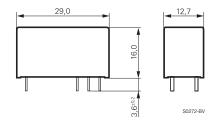


'Schrack' section.



Power PCB Relay RT1 bifurcated (Continued)

Dimensions

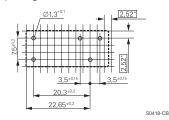


PCB layout / terminal assignment

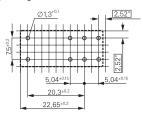
Bottom view on solder pins

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

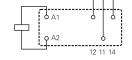
12 A, pinning 3.5 mm

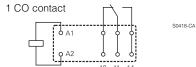


16 A, pinning 5 mm

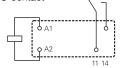










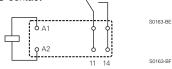




S0163-BG

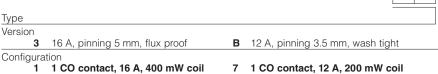
S0163-BH

R T



Product key

Coil



1 NO contact, 16 A, 400 mW coil Contact material

C AgNi 90/10, 16 A version

1 CO contact, 12 A, 200 mW coil 8 1 NO contact, 12 A, 200 mW coil

D AgNi 90/10 gold plated, 12 A version

Coil code: please refer to coil versions table

Product key	Version	Contacts	Cont. material	Coil	Coil	Part number
RT31C012	16 A, pinning 5mm	1 CO	AgNi 90/10	DC coil	12 VDC	1415900-2
RT31C024	flux proof	bifurcated contact			24 VDC	1415900-7
RTB7D012	12 A, 3.5mm		AgNi 90/10		12 VDC	1415900-5
RTB7D024	wash tight		gold plated		24 VDC	1415900-6

Datasheet Rev. HG1 Issued 2008/07 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.