

General Purpose Relays



Electronics

Power PCB Relay RT1 Inrush Power

- 1 pole 16 A, 1 NO contact (W pre-make contact + AgSnO₂)
- 12 A / 240 VAC making and breaking capacity acc. to IEC 60699-1
- 165 A / 20 ms inrush peak current
- mono- or bistable coil
- 5 kV / 10 mm coil-contact
- Reinforced insulation
- Ambient temperature 70°C
- Optional test tab (manual operator)
- RoHS compliant (Directive 2002/95/EC)

Applications

Lighting systems, movement sensors, filament lamp loads, halogen bulbs and motors



in process, c 🔁 us E214025

Technical data of approved types on request

Contact	data	

1 NO
pre-make contact
micro-disconnection
16 A
240/400 VAC
16 A
4000 VA
165 A
800 A
W (pre-make contact) + AgSnO ₂
> 5 10 ⁶ cycles
> 3 10 ⁶ cycles
> 10 ³ cycles
6 / 60 min ⁻¹

Contact ratings

Туре	Load	Cycles
RTS3T	3000 W, 240 VAC, DF 8,3%, 5 min ⁻¹ , incandescent lamp	typ. 4x104
RTT3T	3000 W, 240 VAC, DF 8,3%, 5 min ⁻¹ , incandescent lamp	typ. 2x104
RT*3T	16 A, 240 VAC, capacitive load 140 µF, 7,5 min ⁻¹ , EN60669-1	> 2x10 ⁴
RT*3T	15 A, 264 VAC, cosφ=0.6, IEC 60699-1	> 3x10 ⁴

Coil data	
Coil data, monostable coil	
Rated coil voltage range	5110 VDC
Coil power	typ 400 mW
Operative range	2
Coil insulation system according UL1446	class F

Coil versions, monostable DC-coil

0011 0010					
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDČ	Ω	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
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All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request



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

Product specification according to IEC 61810-1. Product data, technical para-meters, test conditions and

processing information only to be used together with the 'Definitions' at schrackrelays.com in the

voltage (U/U_{rtd}) 9'7 (U/U_{rtd}) 5'7

.... 0 1,8

1.4

0.6

S0493-B

n

1,0 U_{rtd} Rated coil voltage

'Schrack' section.

+60

Coil operating range DC

+40

Specifications subject to change.

Monostable version

+100

1

+80 Ambient temperature [°C]



F0272-A

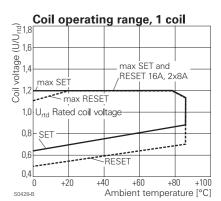


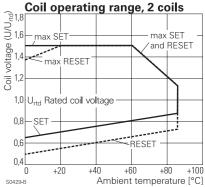


Electronics

Power PCB Relay RT1 Inrush Power (Continued)

Coil data, bistable coils			1 c		2 c	oils
Rated co	oil voltage range	9		324 V	DC	
Coil pow			typ 40	0 mW	typ 60	0 mW
Operativ	e range			2		
Limiting	voltage, % of ra	ted coil voltage	120)%
Minimum	n energization d	uration		30 m	3	
Maximun	n energization o	duration		1 min at < 1	0% DF	
Coil insu	lation system ad	ccording UL1446		class	F	
	sions, bistable					
Coil	Rated	Operate	Reset	Coil		Rated coil
code	voltage	voltage	voltage	resistar	ice	power
0000	VDC	VDC	VDC	Ω		mW
A03	3	4.3	4.3	21±	10%	429
A12	12	8.4	8.4	360±	10%	400
A24	24	16.8	16.8	1440±	10%	400
Coil vers	sions, bistable	2 coils				
F03	3	4.3	4.3	15±1	10%	600
F12	12	8.4	8.4	240±	10%	600
F24	24	16.8	16.8	886±		650
		coil without preen	ergization, at ar	nbient tempe	erature +	-23°C
Other co	il voltages on re	equest				
Coils - o	peration					
Version			1 coil		2 coils	
Coil term	ninals		A1 A2	A1	A3	A2
Pull-in			+ -		+	-
Reset			- +	-	+	
Contact j	position not def	ined at delivery				
Insulati	ion					
	c strength coil-c	ontact circuit		4000 V	rme	





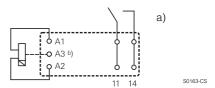
moundion					
Dielectric strength coil-contact circuit	4000	D V _{rms}			
open contact circuit	1250 V _{rms}				
Clearance / creepage coil-contact circuit	≥ 10 /	10 mm			
Material group of insulation parts	≥	Illa			
Tracking index of relay base	PTI 250 V				
Insulation to IEC 60664-1					
Type of insulation coil-contact circuit	Type of insulation coil-contact circuit reinforced				
open contact circuit	functional				
Rated insulation voltage	25	0 V			
Pollution degree	3	2			
Rated voltage system	system 240 V 400 V				
Overvoltage category	111				

Terminal assignment

Bottom view on solder pins

Other data

RoHS - Directive 2002/95/EC	compliant
Flammability class according to UL94	V-0
Ambient temperature range	-4070°C
Vibration resistance (function) monostable	10 g
Shock resistance (destruction)	100 g
Category of protection	RTII - flux proof
Mounting	pcb
Mounting distance	0 mm
Resistance to soldering heat	270 °C / 10 s
Relay weight with / without test tab	16 / 14 g
Packaging unit with / without test tab	100 / 500 pcs



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

b) for 2 coil version only

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Specifications subject to change.

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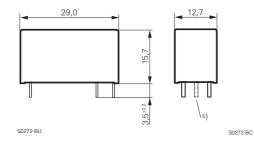
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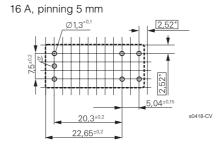


Power PCB Relay RT1 Inrush Power (Continued)

Dimensions / PCB layout

version without test tab



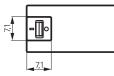


b) for 2 coil version only

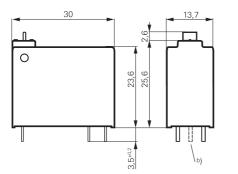
*) With the recommended PCB hole sizes a grid pattern from 2.5 mm

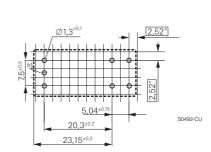
to 2.54 mm can be used.

version with test tab



S0491-B





Product key

		RI	3	
Туре				
Version				
S without test tab	T with test tab (manual operato	or)		
Contact configuration				
3 1 NO contact				
Contact material				
T Tungsten (W) pre-make + AgSnO ₂				
Coil				
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Coil code: please refer to coil versions table, preferred types in bold print

Product key	Version	Contacts	Cont. material	Coil	Coil	Part number
RTS3T012	without	1 NO contact	W pre-make +	monostable	12 VDC	0-1415898-0
RTS3T024	test tab		AgSnO ₂	coil	24 VDC	0-1415898-1
RTS3TA12			•	bistable	12 VDC	0-1415898-2
RTS3TA24				1-coil	24 VDC	0-1415898-3
RTS3TF03				bistable	3 VDC	0-1415898-4
RTS3TF12				2-coils	12 VDC	0-1415898-5
RTS3TF24					24 VDC	0-1415898-6
RTT3TA12	with			bistable	12 VDC	0-1415898-7
RTT3TA24	test tab			1-coil	24 VDC	0-1415898-8
RTT3TF12				bistable	12 VDC	0-1415898-9
RTT3TF24				2-coils	24 VDC	1-1415898-0

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