

# **Power PCB Relay RT2**

■ 2 pole 8 A, 2 CO or 2 NO contacts

Electronics

DC- or AC-coil

**₹** <sub>Tyco</sub>

- Sensitive coil 400 mW
- Reinforced insulation
- WG version: Product in accordance to IEC60335-1
- RoHS compliant (Directive 2002/95/EC) as per product date code 0413

### **Applications**

Domestic appliances, heating control, emergency lighting, modems

8 A, 250 VAC, NO contact, 70°C, EN61810-1

8 A, 30 VDC, General Purpose, UL508 4 A, 230 VAC, cosφ=0.6, gas burner

6(3) A, 250 VAC, NO contact, 70°C; EN60730-1 6(2) A, 250 VAC, NO contact, 85°C; EN60730-1 10 A, 250 VAC, NO/NC contact, 85°C; EN60730-1 10 A, 250 VAC, CO contact, 70°C; General purpose, UL508 1/2hp @ 240 VAC, 1/4hp @ 120 VAC, UL508 Pilot duty B300, UL508 PA 20 VAC, DC Coexeral Purpose, UL509



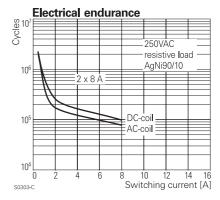
F0149-B

# Approvals

🚾 REGNr. 6106, c 🖫 us E214025, 🕮 14385, 📟 C0786						
Technical data of approved types on request						
2 CO or 2 NO						
single contact						
micro disconnection						
8 A, UL: 10 A						
250/400 VAC						
UL: 10 A						
2000 VA						
% 15 A						
i 90/10, AgNi 90/10 gold plated, AgSnO2						
> 30 x 10 <sup>6</sup> cycles						
$> 5 \times 10^6$ cycles						
6 / 1200 min-1						

#### 300 2-pole 200 resistive load contacts in series 100 . 50 contact ++++ G 10 0.1 0,2 0,5 20 5 10 20 DC current [A] S0154-E

Max. DC load breaking capacity



Coil operating range DC

2x8

+40

1,0 Urtd Rated coil voltage

2x4

### Coil data

Type RT424

RT444

RT424

RT424

RT424

RT424

RT424 RT424 Load

Rated coil voltage range DC coil	5110 VDC
AC coil	24230 VAC
Coil power DC coil	typ 400 mW
AC coil	typ 0,75 VA
Operative range	2
Coil insulation system according UL1446	class F

#### Coil versions, DC-coil

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

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

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 only. Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

Cycles

100x10<sup>3</sup>

100x10<sup>3</sup>

100x10<sup>3</sup>

150x10<sup>3</sup>

30x10<sup>3</sup>

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

(p13,0 1,00 2,6

voltage 2,2

1.4

0,6

S0304-D

'Schrack' section.

+60

Specifications subject to change.

+80

Ambient temperature [°C]

+100

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# Power PCB Relay RT2 (Continued)

### Coil versions, AC-coil 50Hz

Coil	Rated	Operate	Release	Coil	Rated coil	
code	voltage	voltage	voltage	voltage resistance		
	-	50 Hz	50 Hz		50 Hz	
	VAC	VAC	VAC	Ω	VA	
524	24	18.0	3.6	350±10%	0.76	
615	115	86.3	17.3	8100±15%	0.76	
620	120	90.0	18.0	8800±15%	0.75	
700	200	150.0	30.0	24350±15%	0.76	
730	230	172.5	34.5	32500±15%	0.74	
All figures are given for coil without prophergization, at ambient temperature, 22°C						

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

#### Insulation

Other data

Mounting

Ambient temperature range

Operate- / release time DC coil

Shock resistance (destruction)

Category of protection

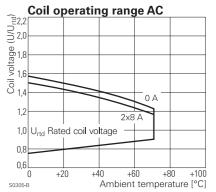
Mounting distance

Bounce time DC coil NO / NC contact Vibration resistance (function) NO / NC contact

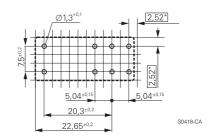
Resistance to soldering heat flux-proof version

wash-tight version

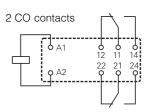
modiation			
Dielectric strength coil-contact circuit	5000	Vrms	
open contact circuit	1000	Vrms	
adjacent contact circuits	2500	Vrms	
Clearance / creepage coil-contact circuit	≥ 10 / 1	10 mm	
adjacent contact circuits	$\geq$ 3 / 4	4 mm	
Material group of insulation parts	[]],	а	
Tracking index of relay base PTI 250 V			
Insulation to IEC 60664-1			
Type of insulation coil-contact circuit	reinfo	rced	
open contact circuit	micro disc	onnection	
adjacent contact circuits	bas	sic	
Rated insulation voltage	250	) V	
Pollution degree	3	2	
Rated voltage system	250 V	400 V	
Overvoltage category		l	



#### 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.



S0163-BJ

# Accessories

Relay weight Packaging unit

For details	see	datasheet	

 Other data
 Compliant

 RoHS - Directive 2002/95/EC
 compliant

 For WG version: GWFI to IEC 60335-1 (IEC 60695-2-12)
 GWIT to IEC 60335-1 (IEC 60695-2-13)

accessories RT

compliant as per product date code 0413

> 850 °C

<u>> 755</u> °C -40...+70°C typ 7 / 2 ms typ 1 / 3 ms

20 / 5 g, 30 ... 300 Hz

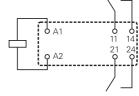
100 g RTII - flux proof, RTIII - wash tight

pcb or on socket 0 / 2.5 mm 270°C / 10 s 260°C / 5 s

13 g

20 / 500 pcs

2 NO contacts

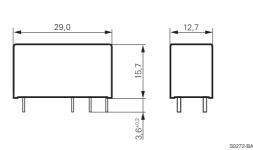




S0163-BH

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#### Dimensions



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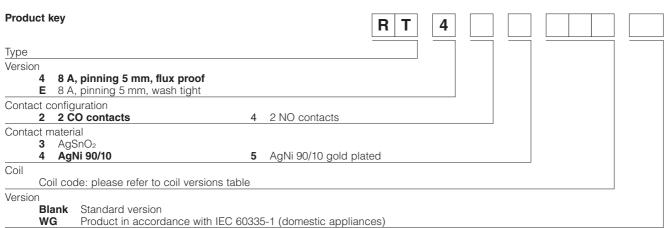
Dimensions are in mm unless otherwise specified and are shown for reference purposes only

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

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Specifications subject to change.

# Power PCB Relay RT2 (Continued)



Preferred types in bold print

Product key	Version	Contacts	Cont. material	Coil	Coil	Part number
RT423012	8 A	2 CO contacts	AgSnO	DC-coil	12 VDC	4-1419136-3
RT423024	pinning 5 mm		-		24 VDC	4-1393243-2
RT424005	flux proof		AgNi 90/10		5 VDC	5-1393243-9
RT424006			Ŭ		6 VDC	6-1393243-1
RT424012					12 VDC	6-1393243-3
RT424024					24 VDC	6-1393243-8
RT424048					48 VDC	7-1393243-0
RT424060					60 VDC	7-1393243-3
RT424110					110 VDC	7-1393243-5
RT424524				AC-coil	24 VAC	7-1393243-6
RT424615					115 VAC	7-1393243-8
RT424730					230 VAC	7-1393243-9
RT425005			AgNi 90/10	DC-coil	5 VDC	8-1393243-0
RT425012			gold plated		12 VDC	8-1393243-2
RT425024					24 VDC	8-1393243-5
RT425524				AC-coil	24 VAC	9-1393243-1
RT425615					115 VAC	9-1393243-2
RT425730					230 VAC	9-1393243-3
RT444012		2 NO contacts	AgNi 90/10	DC-coil	12 VDC	9-1393243-7
RT444024			_		24 VDC	9-1393243-9
RTE24005	8 A	2 CO contacts			5 VDC	0-1393243-1
RTE24006	pinning 5 mm				6 VDC	0-1393243-2
RTE24012	wash tight				12 VDC	0-1393243-4
RTE24024					24 VDC	1-1393243-0
RTE24048					48 VDC	1-1393243-1
RTE24060					60 VDC	1-1393243-3
RTE24110					110 VDC	1-1393243-4
RTE24524				AC-coil	24 VAC	1-1393243-5
RTE24615					115 VAC	1-1393243-7
RTE24730					230 VAC	1-1393243-8
RTE25005			AgNi 90/10	DC-coil	5 VDC	1-1393243-9
RTE25012			gold plated		12 VDC	2-1393243-0
RTE25024					24 VDC	2-1393243-1

Specifications subject to change.

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