

Power PCB Relay RT2

2 pole 8 A, 2 CO or 2 NO contacts

- DC- or AC-coil
- Sensitive coil 400 mW
- Reinforced insulation
- WG version: Product in accordance to IEC60335-1



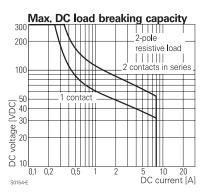
Applications

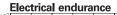
Domestic appliances, heating control, emergency lighting, modems

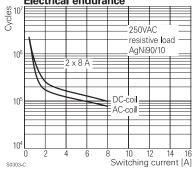
F0149-C

Approvals

Approvais						
REGNr. 6	5106, cP	US E214025, 🖉 🛚 1438	35, 🕮 C0786			
Technical data of			,			
Contact data						
Contact configu	Iration		2 CO	or 2 NO		
Contact set			single contact			
Type of interrup			micro disconnection			
Rated voltage /	max. switc	ning voltage AC		400 VAC		
Rated current				JL: 10 A		
Limiting continu				JL: 10 A		
Maximum break				AV OC		
Limiting making capacity, max 4 s, duty factor 10%				5 A		
Contact material AgNi 90/10, AgNi 90/10 gold plated,					, AgSnO ₂	
		on DC coil with / without		00 min-1		
		n / without load)0 min-1		
Operate- / relea				8 / 6 ms		
Bounce time DC	C coil NO /	NC contact	max 4 / 10 ms			
Contact rating						
Contact ratings Type	Contact	Load		Ambient	Cycles	
туре	Contact	LUau		temp. [°C]	Cycles	
IEC 61810						
RT424 DC coil	CO	8 A, 250 VAC, cosφ=1		85°C	10x10 ³	
RT444 AC coil	NO	8 A, 250 VAC, cosφ=1		70°C	50x10 ³	
RT424 AC coil	СО	8 A, 250 VAC, cosφ=1		70°C	30x10 ³	
UL 508		· ·				
RT424 DC coil	NO / NC	10 A, 250 VAC, genera	l purpose	85°C	20x10 ³	
RT424 DC coil	NO / NC	1/2 hp, 240 VAC	• •	85°C	1x10 ³	
RT424 DC coil	NO / NC	Pilot duty, B300, R300		85°C	6x10 ³	
EN60047 E 1						







Coil data

EN60947-5-1

RTE24 DC coil

RTE24 DC coil

RTE24 DC coil

RT424 DC coil

EN60730-1

NO / NC

NO / NC

NO / NC

NO / NC

Rated coil voltage range DC coil	5110 VDC		
AC coil	24230 VAC		
Operative range to IEC 61810	2		
Coil insulation system according UL1446	class F		

AC15, 250 VAC, 3A DC13, 24 VDC, 2A

6(2) A, 250 VAC

DC13, 250V DC, 0.2A

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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

85°C

6.050

6.050

6.050

100x10³

processing information only to be used together with the 'Definitions' section in the cat-alogue or at schrackrelays.com in the 'Schrack' section.

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Specifications subject to change.

Power PCB Relay RT2 (Continued)

Coil versions, DC-coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	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

Coil versions. AC-coil 50Hz

Coil	Rated	Operate	Release	Coil	Rated coil	
code	voltage	voltage	voltage	resistance	power	
		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 preenergization, at ambient temperature +23°C						

Insulation

Other data

Environment

Procesing

Material

Mechanical endurance DC coil

AC coil

Resistance to heat and fire, WG version

max. ambient temperature AC coil

Resistance to soldering heat flux-proof version

max. ambient temperature AgSnO contacts

Vibration resistance (function) NO / NC contact 20 / 5 g, 30 ... 300 Hz

wash-tight version

RoHS - Directive 2002/95/EC

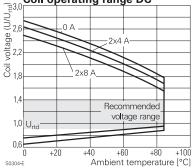
Ambient temperature range

Shock resistance (destruction) Category of protection

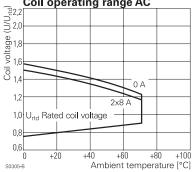
Mounting distance DC / AC coil

insulation				
Dielectric strength coil-contact circuit	5000 V _{rms}			
open contact circuit	1000 V _{rms}			
adjacent contact circuits	2500 Vrms			
Clearance / creepage coil-contact circuit	≥ 10 / 10 mm			
adjacent contact circuits	≥3/4 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	reinforced			
open contact circuit	micro disconnection			
adjacent contact circuits	basic			
Rated insulation voltage	250 V			
Pollution degree	3	2		
Rated voltage system	240 V	230 / 400 V		
Overvoltage category				

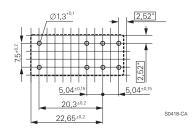
Coil operating range DC



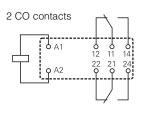
Coil operating range AC

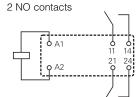


PCB layout / terminal assignment Bottom view on solder pins



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





Accessories

For details see datasheet

Mounting

Relay weight Packaging unit

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

> 30 x 10⁶ cycles

 $> 5 \times 10^6$ cycles

compliant as per product date code 0413

according EN60335, par30.

-40...+85°C

70°C

70°C

100 g RTII - flux proof, RTIII - wash tight

pcb or on socket

 \geq 0 / \geq 2.5 mm

270°C / 10 s

260°C/5s

13 g

20 / <u>500 pcs</u>

accessories RT

processing information only to be used together with the 'Definitions' section in the catalogue or at schrackrelays.com S0163-BK

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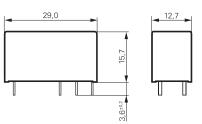
S0163-BJ

in the 'Schrack' section. Specifications subject to change.

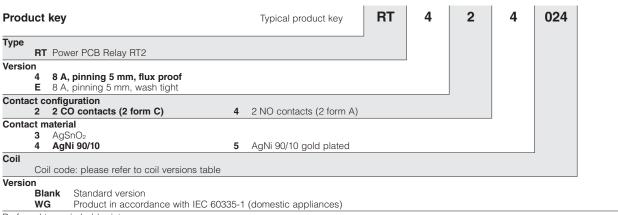


Power PCB Relay RT2 (Continued)

Dimensions







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			-		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			0		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	1393243-1
RTE24006	pinning 5 mm				6 VDC	1393243-2
RTE24012	wash tight				12 VDC	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

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