

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

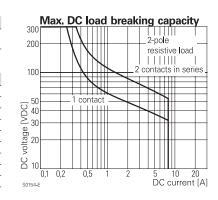
Approvals
REGNr. 6106, c % us E214025, c 6 14385, 6 C0786
Technical data of approved types on request

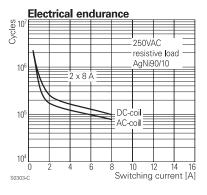
Contact data	
Contact configuration	2 CO or 2 NO
Contact set	single contact
Type of interruption	micro disconnection
Rated voltage / max. switching voltage AC	250 / 400 VAC
Rated current	8 A, UL: 10 A
Limiting continuous current	8 A, UL: 10 A
Maximum breaking capacity AC	2000 VA
Limiting making capacity, max 4 s, duty fact	or 10% 15 A
Contact material	AgNi 90/10, AgNi 90/10 gold plated, AgSnO ₂
Rated frequency of operation DC coil with /	without load 6 / 1200 min-1
AC coil with / without load	6 / 600 min-1
Operate- / release time DC coil	max 8 / 6 ms
Bounce time DC coil NO / NC contact	max 4 / 10 ms

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Contact ratings	

Contact ratings	5			
Туре	Contact	Load	Ambient	Cycles
			temp. [°C]	
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	CO	8 A, 250 VAC, cosφ=1	70°C	30x10 ³
UL 508		•		
RT424 DC coil	NO / NC	10 A, 250 VAC, general 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
EN60947-5-1		·		
RTE24 DC coil	NO / NC	AC15, 250 VAC, 3A		6.050
RTE24 DC coil	NO / NC	DC13, 24 VDC, 2A		6.050
RTE24 DC coil	NO / NC	DC13, 250V DC, 0.2A		6.050
EN60730-1				
RT424 DC coil	NO / NC	6(2) A, 250 VAC	85°C	100x10 ³

Coil data	
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







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
006 012 024 048 060	6 12 24 48 60	4.2 8.4 16.8 33.6 42.0	0.6 1.2 2.4 4.8 6.0	90±10% 360±10% 1440±10% 5520±10% 8570±12%	400 400 400 417 420

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

insulation	
Dielectric strength coil-contact circuit	5000 V _{rms}
open contact circuit	1000 V _{rms}
adjacent contact circuits	2500 V _{rms}
Clearance / creepage coil-contact circuit	≥ 10 / 10 mm
adjacent contact circuits	≥ 3 / 4 mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI 250 V

Insulation to IEC 60664-1

Type of insulation coil-contact circuit open contact circuit adjacent contact circuits
Rated insulation voltage
Pollution degree
Rated voltage system

Teinforced micro disconnection basic

250 V

240 V

230 / 400 V

Overvoltage category

Otner data	
Mechanical endurance DC coil	> 30 x 10 ⁶ cycles
AC coil	> 5 x 10 ⁶ cycles

Material

RoHS - Directive 2002/95/EC compliant as per product date code 0413

Resistance to heat and fire, WG version according EN60335, par30.

Environment

Resistance to heat and fire, WG version according EN60335, par30.

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Ambient temperature range -40...+85°C

Vibration resistance (function) NO / NC contact 20 / 5 g, 30 ... 300 Hz Shock resistance (destruction) $\,$ 100 g

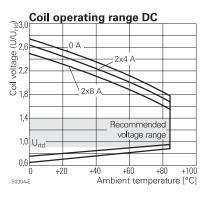
Category of protection Procesing

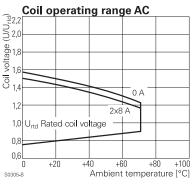
Mounting pcb or on socket Mounting distance DC / AC coil \geq 0 / \geq 2.5 mm Resistance to soldering heat flux-proof version wash-tight version \geq 260°C / 5 s

Relay weight Packaging unit

Accessories

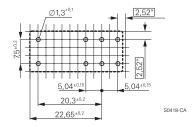
For details see datasheet accessories RT



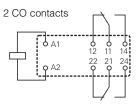


PCB layout / terminal assignment

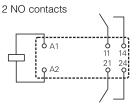
Bottom view on solder pins



 $^{\star})$ With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.



S0163-BJ



0163-BK

Datasheet Rev. IJ1 Issued 2009/10 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

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RTII - flux proof, RTIII - wash tight

13 g

20 / 500 pcs

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

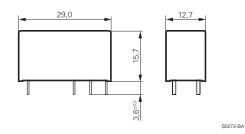
in the 'Schrack' section.

Specifications subject to change.



Power PCB Relay RT2 (Continued)

Dimensions



RT 2 4 024 Product key Typical product key 4 Туре RT Power PCB Relay RT2 Version 8 A, pinning 5 mm, flux proof 8 A, pinning 5 mm, wash tight Contact configuration 2 NO contacts (2 form A) 2 2 CO contacts (2 form C) Contact material AgSnO₂ AgNi 90/10 5 AgNi 90/10 gold plated Coil Coil code: please refer to coil versions table Version Blank Standard version Product in accordance with IEC 60335-1 (domestic appliances)

WG Product in a 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					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