

Power PCB Relay RT2

■ 2 pole 8 A, 2 CO or 2 NO contacts

Electronics

DC- or AC-coil

₹_{Тусо}

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

Applications

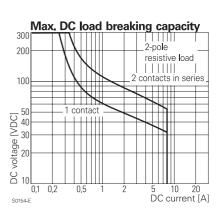
Domestic appliances, heating control, emergency lighting, modems



F0149-C

Approvals

🚾 REGNr. 6106, C 🎗 us E214025, C 🕼 14385, 🍽 C0786					
Technical data of approved types on request					
Contact data					
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 factor	or 10% 15 A				
	AgNi 90/10, AgNi 90/10 gold plated, AgSnO ₂				
Rated frequency of operation DC coil with / v	vithout 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				



Contact ratings

oomaotraamg	0			
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

Electrical endurance Cycles Cycles 250VAC resistive load AgNi90/10 106 x 8 Å DC-coil 10 AC-coil 10⁴ 3 10 12 14 16 Switching current [A] 0 4 6 8 2 S0303-C

Coil data

5110 VDC	
24230 VAC	
2	
class F	
	24230 VAC 2

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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 processing information only to be used together with the 'Definitions' section in the catalogue 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 $+23^{\circ}$ C					

coll without preenergization, at amplent temperature +23°C Other coil voltages on request

Coil versions, AC-coil 50Hz

Coil	Rated	Operate	Release	Coil	Rated coil		
code	voltage	voltage	voltage	tage 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 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)

Mounting distance DC / AC coil

Category of protection

Mounting

Relay weight

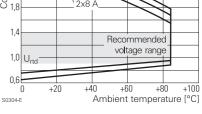
For details see datasheet

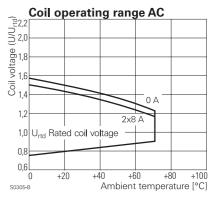
Packaging unit

moulation			
Dielectric strength coil-contact circuit	50	00 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	8 / 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		III	

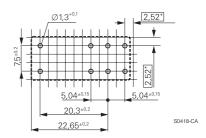
Coil operating range DC P3,0 0 A 21 voltage -2x4 ... 0 1.8 2x8 Recommended voltage range

(U/U,

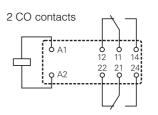


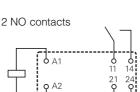


PCB layout / terminal assignment Bottom view on solder pins



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





S0163-BK

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S0163-BJ

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Accessories

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

> 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

accessories RT

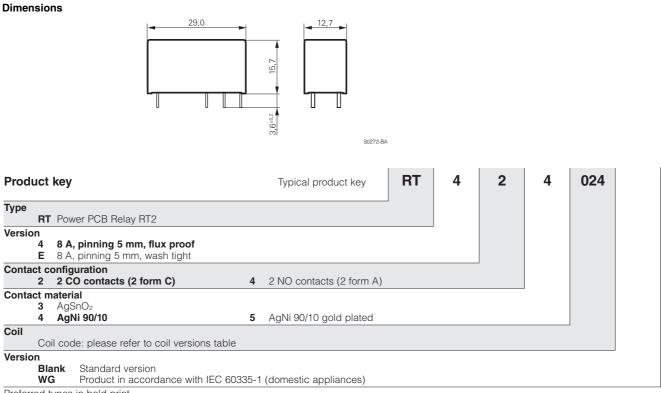
/ 500 pcs

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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			-		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

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