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## **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
- RoHS compliant (Directive 2002/95/EC) as per product date code 0413

# **Applications**

Domestic appliances, heating control, emergency lighting, modems



F0149-B

# **Approvals**

VDE REG.-Nr. 6106, C SUS E214025, CO786 CO786 € CO786 Technical data of approved types on request

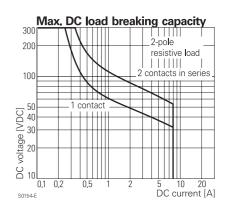
Contact data	
Contact configuration	2 CO or 2 NO
Contact set	single contact
Type of interruption	micro disconnection
Rated current	8 A, UL: 10 A
Rated voltage / max.switching voltage AC	250/400 VAC
Limiting continuous current	UL: 10 A
Maximum breaking capacity AC	2000 VA
Limiting making capacity, max 4 s, duty fact	or 10% 15 A
Contact material	AgNi 90/10, AgNi 90/10 gold plated, AgSnO <sub>2</sub>
Mechanical endurance DC coil	> 30 x 10 <sup>6</sup> cycles
AC coil	> 5 x 10 <sup>6</sup> cycles
Rated frequency of operation with / without	oad 6 / 1200 min-1

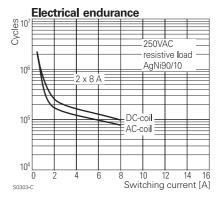
Contact ratings				
Туре	Load	Cycles		
RT424	8 A, 250 VAC, NO contact, 70°C, EN61810-1	100x10 <sup>3</sup>		
RT444	6(3) A, 250 VAC, NO contact, 85°C; EN60730-1	100x10 <sup>3</sup>		
RT424	6(2) A, 250 VAC, NO/NC contact, 85°C; EN60730-1	100x10 <sup>3</sup>		
RT424	10 A, 250 VAC, CO contact, 70°C; General purpose, UL508	30x10 <sup>3</sup>		
RT424	1/2hp @ 240 VAC, 1/4hp @ 120 VAC, UL508			
RT424	Pilot duty B300, UL508			
RT424	8 A, 30 VDC, General Purpose, UL508			
RT424	4 A, 230 VAC, cosφ=0.6, gas burner	150x10 <sup>3</sup>		

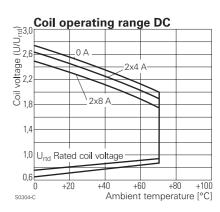
Coil data	
Rated coil voltage range DC coil	5110 VDC
AC coil	24230 VAC
Coil power DC coil	typ 400 mW
AC coil	typ 0,75 VA
Operative range	2
Coil insulation system according UL1446	class F

Coil yor	sions, DC-coil				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDČ	VDČ	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 O	11.0	28800+12%	420

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









### Power PCB Relay RT2 (Continued)

Coil versions, AC-coil 50Hz

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	ge 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

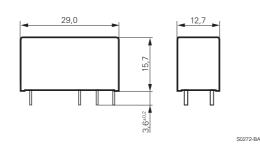
All figures are given for coil without preenergization, at ambient temperature +23°C

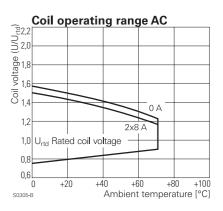
Insulation			
Dielectric strength coil-contact circuit	50	000 V <sub>rms</sub>	П
open contact circuit	10	000 V <sub>rms</sub>	
adjacent contact circuits	25	500 V <sub>rms</sub>	
Clearance / creepage coil-contact circuit	≥ 10	0 / 10 mm	
adjacent contact circuits	≥ 3	3 / 4 mm	
Material group of insulation parts		≥ Illa	
Tracking index of relay base	PT	ΓI 250 V	
Insulation to IEC 60664-1			
Type of insulation coil-contact circuit	reinforced		
open contact circuit	fu	nctional	
adjacent contact circuits		basic	
Rated insulation voltage		250 V	
Pollution degree	3	2	
Rated voltage system	240 V	400 V	
Overvoltage category		III	

Other data	
RoHS - Directive 2002/95/EC	compliant as per product date code 0413
Flammability class according to UL94	V-0
For WG version: GWFI to IEC 60335-1 (IEC 60	(695-2-12) > 850 °C
GWIT to IEC 60335-1 (IEC 60	(695-2-13) > 755 °C
Ambient temperature range	-40+70°C
Operate- / release time DC coil	typ 7 / 2 ms
Bounce time DC coil NO / NC contact	typ 1 / 3 ms
Vibration resistance (function) NO / NC contact	et 20 / 5 g, 30 300 Hz
Shock resistance (destruction)	100 g
Category of protection	RTII - flux proof, RTIII - wash tight
Mounting	pcb or on socket
Mounting distance DC / AC coils	0 / 2.5 mm
Resistance to soldering heat flux-proof version	270°C / 10 s
wash-tight versio	n 260°C / 5 s
Relay weight	13 g
Packaging unit	20 / 500 pcs

# Accessories For details see datasheet accessories RT

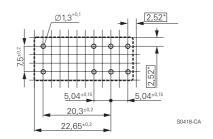
#### **Dimensions**



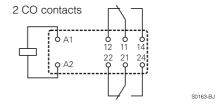


### PCB layout / terminal assignment

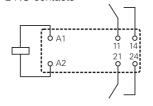
Bottom view on solder pins



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



2 NO contacts



S0163-





# Power PCB Relay RT2 (Continued)

Product I	key		RT4		
Type					
Version					
4 E	<b>8 A, pinning 5 mm, flux proof</b> 8 A, pinning 5 mm, wash tight				
Contact c	onfiguration				
2	2 CO contacts	4 2 NO contacts			
Contact n	naterial				
3	AgSnO <sub>2</sub>				
4	AgNi 90/10	5 AgNi 90/10 gold pl	ated		
Coil					
Co	oil code: please refer to coil versions table	е			
Version					
BI:	<ul><li>ank Standard version</li><li>G Product in accordance with IEC 60</li></ul>	0335-1 (domestic applia	nces)		

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	'		Ü		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