

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



F0149-B

Applications

Domestic appliances, heating control, emergency lighting, modems

Approvals

VDE REG.-Nr. 6106, **UL** us E214025, **CS** 14385, **BEAB** 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 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 factor 10%	15 A
Contact material	AgNi 90/10, AgNi 90/10 gold plated, AgSnO ₂
Mechanical endurance DC coil	> 30 x 10 ⁶ cycles
AC coil	> 5 x 10 ⁶ cycles
Rated frequency of operation with / without load	6 / 1200 min-1

Contact ratings

Type	Load	Cycles
RT424	8 A, 250 VAC, NO contact, 70°C, EN61810-1	100x10 ³
RT444	6(3) A, 250 VAC, NO contact, 85°C; EN60730-1	100x10 ³
RT424	6(2) A, 250 VAC, NO/NC contact, 85°C; EN60730-1	100x10 ³
RT424	10 A, 250 VAC, CO contact, 70°C; General purpose, UL508	30x10 ³
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 ³

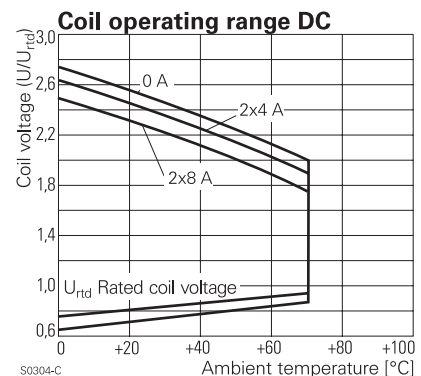
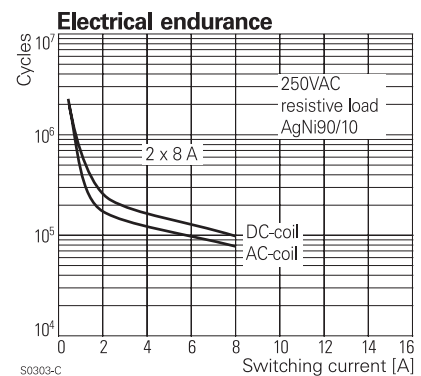
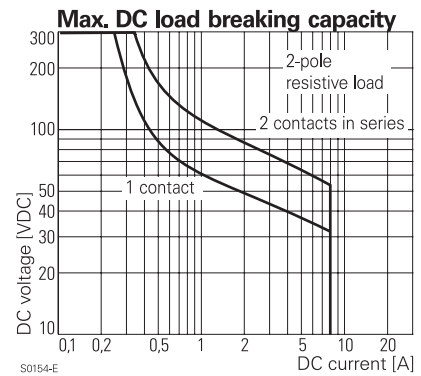
Coil data

Rated coil voltage range DC coil	5...110 VDC
AC coil	24...230 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 code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω	Rated coil power 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



Power PCB Relay RT2 (Continued)

Coil versions, AC-coil 50Hz

Coil code	Rated voltage VAC	Operate voltage 50 Hz VAC	Release voltage 50 Hz VAC	Coil resistance Ω	Rated coil power 50 Hz 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	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	reinforced
open contact circuit	functional
adjacent contact circuits	basic
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	240 V
Overvoltage category	III

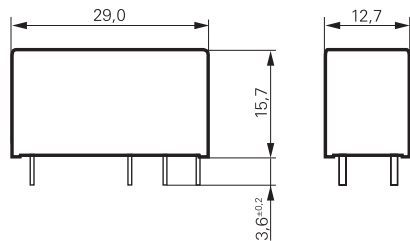
Other data

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 60695-2-12)	> 850 °C
GWIT to IEC 60335-1 (IEC 60695-2-13)	> 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	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 version	260°C / 5 s
Relay weight	13 g
Packaging unit	20 / 500 pcs

Accessories

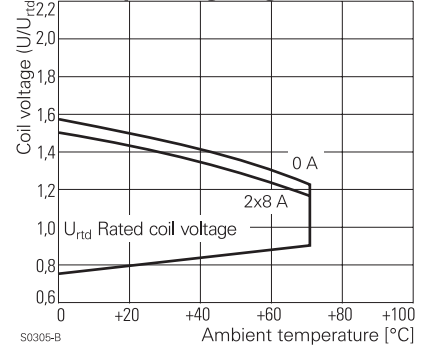
For details see datasheet accessories RT

Dimensions



S0272-BA

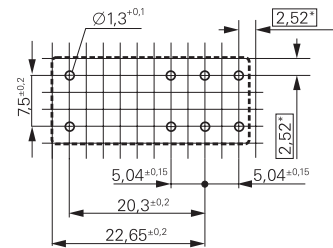
Coil operating range AC



S0305-B

PCB layout / terminal assignment

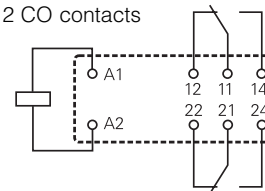
Bottom view on solder pins



S0418-CA

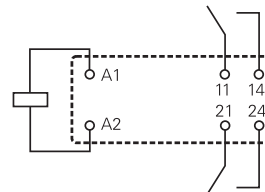
*) With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.

2 CO contacts



S0163-BJ

2 NO contacts



S0163-BK

Power PCB Relay RT2 (Continued)

Product key

	R	T	4						
Type									
Version									
4 8 A, pinning 5 mm, flux proof									
E 8 A, pinning 5 mm, wash tight									
Contact configuration									
2 2 CO contacts	4 2 NO contacts								
Contact material									
3 AgSnO₂									
4 AgNi 90/10	5 AgNi 90/10 gold plated								
Coil	Coil code: please refer to coil versions table								
Version									
Blank	Standard version								
WG	Product in accordance with IEC 60335-1 (domestic appliances)								

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		AgNi 90/10		24 VDC	4-1393243-2			
RT424005	flux proof					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		2 NO contacts	AgNi 90/10	DC-coil	5 VDC	8-1393243-0			
RT425012					12 VDC	8-1393243-2			
RT425024					24 VDC	8-1393243-5			
RT425524					24 VAC	9-1393243-1			
RT425615					115 VAC	9-1393243-2			
RT425730					230 VAC	9-1393243-3			
RT444012					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 gold plated	DC-coil	5 VDC				1-1393243-9	
RTE25012				12 VDC				2-1393243-0	
RTE25024				24 VDC	2-1393243-1				



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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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