

# Power PCB Relay RT2 bistable

- 2 pole 8 A, 2 CO contacts
- Polarized bistable version with 1 or 2 coils
- 5 kV / 10 mm coil-contact
- Reinforced insulation



Battery powered equipment or applications with "memory function" (e.g. mains failure)



F0219-C

# Approvals

VDE REG.-Nr. 6106, c us E214025,

Technical data of approved types on request

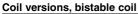
Contact data	
Contact configuration	2 CO
Contact set	single contact
Type of interruption	micro disconnection
Rated voltage / max. switching voltage AC	250 / 400 VAC
Rated current	8 A, UL: 10 A
Limiting continuous current	8 A, UL: 10 A
Maximum breaking capacity AC	2000 VA
Limiting making capacity, max 4 s, duty factor 10%	15 A
Contact material	AgNi 90/10
Rated frequency of operation with / without load	15 / 1200 min <sup>-1</sup>
Operate- / release time	max 10 / 5 ms
Bounce time NO / NC contact	max 4 / 9 ms

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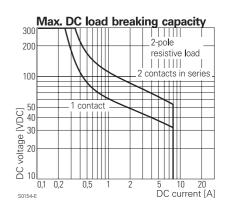


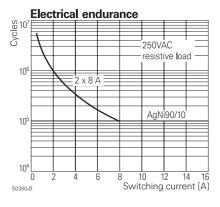
Type	Contact	Load	Ambient	Cycles
			temp. [°C]	
IEC 61810				
RT444	NO	8 A, 250 VAC, cosφ=1	85°C	100x10 <sup>3</sup>
RT424	CO	8 A, 250 VAC, cosφ=1	85°C	30x10 <sup>3</sup>
UL 508				
RT424 DC coil	NO / NC	10 A, 250 VAC, general purpose	85°C	20x10 <sup>3</sup>
RT424 DC coil	NO / NC	1/2 hp, 240 VAC	85°C	1x10 <sup>3</sup>
RT424 DC coil	NO / NC	Pilot duty, B300, R300	85°C	6x10 <sup>3</sup>

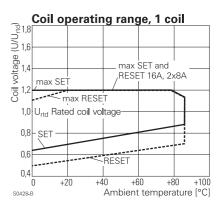
Coil data	1 coil	2 coils		
Rated coil voltage range	524 VDC			
Operative range to IEC 61810		2		
Limiting voltage, % of rated coil voltage	120%	150%		
Minimum energization duration	ms			
Maximum energization duration	1 min at <	< 10% DF		
Coil insulation system according UL1446	insulation system according UL1446 class F			



Coil	Rated	Operate	Reset	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω	mW
bistable,	1 coil				
A05	5	3.5	2.8	62±10%	403
A06	6	4.2	3.3	90±10%	400
A12	12	8.4	6.6	360±10%	400
A24	24	16.8	13.2	1440±10%	400









# Power PCB Relay RT2 bistable (Continued)

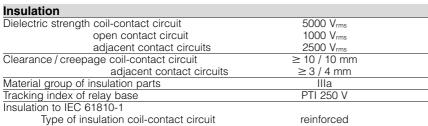
## bistable, 2 coils

F05	5	3.5	2.8	42±10%	595
F06	6	4.2	3.3	55±10%	655
F12	12	8.4	6.6	240±10%	600
F24	24	16.8	13.2	886±10%	650

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

## Coils operation

Version	1 (	coil	2 coils
Coil terminals	A1	A2	A1 A3 A2
Pull-in	+	-	+ -
Reset	-	+	- +
Contact position not defined at delivery			



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

Type of insulation coil-contact circuit
open contact circuit
basic
250 V
250 V
230 / 400 V

## Other data

Other data	
Mechanical endurance	> 2 x 10 <sup>6</sup> cycles
Material	

Material

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

Environment

Ambient temperature range -40...+85°C
Vibration / shock resistance (function) opening NC cont.
opening closed NO contact 3 / 5 g
Shock resistance (destruction) 6 / 15 g
100 g

Shock resistance (destruction) 100 g

Category of protection RTII - flux-proof

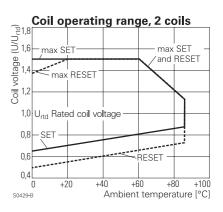
Processing

Mounting pcb or on socket\*)

Mounting distance  $\geq 0 \text{ mm}$ Resistance to soldering heat  $270^{\circ}\text{C} / 10 \text{ s}$ Relay weight 13 gPackaging unit DC coil, bistable 1 coil bistable 2 coils 20 / 500 pcs

# Accessories

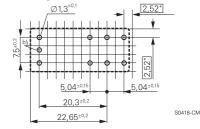
For 1-coil version, details see datasheet accessories RT



# PCB layout / terminal assignment

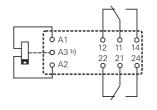
Bottom view on solder pins

## 8 A, Pinning 5 mm



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

# 2 CO contacts



S0163-DL

a)

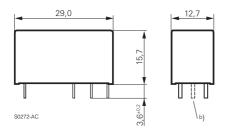
change.

<sup>\*)</sup> socket available for 1 coil version only, see Accessories



# Power PCB Relay RT2 bistable (Continued)

# **Dimensions**



- a) Indicated contact position while or after coil energization with reset voltage.
- b) for 2 coil version only

Product ke	еу	Typical product key	RT	4	2	4	F24
Type RT Po	ower PCB Relay RT2 bistable		J				
Version 4 8	A, pinning 5 mm, flux proof						
Contact conf 2 2	figuration CO contacts (2 form C)						
Contact mate	erial gNi 90/10						
Coil Coil co	code: please refer to coil versions table, preferred types in	bold print					

Product key	Version	Contacts	Cont. material	Coil	Coil	Part number
RT424A12	8 A	2 CO contacts	AgNi 90/10	bistable	12 VDC	4-1393243-6
RT424A24	pinning 5 mm			1 coil	24 VDC	4-1393243-7
RT424F12	flux tight			bistable	12 VDC	5-1393243-4
RT424F24				2 coils	24 VDC	5-1393243-6
		•	•			