

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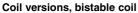
Technical data of approved types on request

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 ⁻¹
Operate- / release time	max 10 / 5 ms
Bounce time NO / NC contact	max 4 / 9 ms

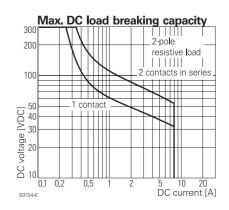


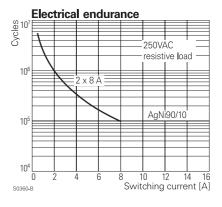
Type	Contact	Load	Ambient	Cycles
			temp. [°C]	
IEC 61810				
RT444	NO	8 A, 250 VAC, cosφ=1	85°C	100x10 ³
RT424	CO	8 A, 250 VAC, cosφ=1	85°C	30x10 ³
UL 508				
RT424 DC coil	NO / NC	10 A, 250 VAC, general purpose	85°C	20x10 ³
RT424 DC coil	NO / NC	1/2 hp, 240 VAC	85°C	1x10 ³
RT424 DC coil	NO / NC	Pilot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

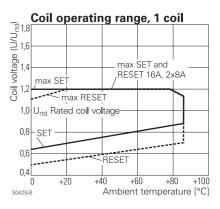
Coil data	1 coil	2 coils
Rated coil voltage range	524 VDC	
Operative range to IEC 61810		2
Limiting voltage, % of rated coil voltage	120%	150%
Minimum energization duration	30	ms
Maximum energization duration	1 min at 4	< 10% DF
Coil insulation system according UL1446	clas	ss F



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









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			

Insulation 5000 V_{rms} Dielectric strength coil-contact circuit 1000 V_{rms} open contact circuit adjacent contact circuits 2500 V_{rms} Clearance / creepage coil-contact circuit ≥ 10 / 10 mm adjacent contact circuits \geq 3 / 4 mm Material group of insulation parts Illa PTI 250 V Tracking index of relay base Insulation to IEC 61810-1

Type of insulation coil-contact circuit reinforced open contact circuit micro disconnection adjacent contact circuits basic Rated insulation voltage 250 V Pollution degree 3 2 240 V 230 / 400 V Rated voltage system Overvoltage category Ш

Other data

Other data	
Mechanical endurance	> 2 x 10 ⁶ cycles
Material	

ivialeriai 1

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

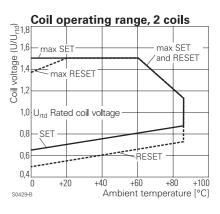
Category of protection RTII - flux-proof

Processing

 $\begin{array}{lll} \mbox{Mounting} & \mbox{pcb or on socket*} \\ \mbox{Mounting distance} & \geq 0 \mbox{ mm} \\ \mbox{Resistance to soldering heat} & 270^{\circ}\mbox{C} \ / \ 10 \mbox{ s} \\ \mbox{Relay weight} & 13 \mbox{ g} \\ \mbox{Packaging unit DC coil, bistable 1 coil} & 20 \ / \ 500 \mbox{ pcs} \\ \mbox{bistable 2 coils} & 100 \mbox{ pcs} \\ \end{array}$

Accessories

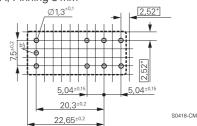
For 1-coil version, details see datasheet accessories RT



PCB layout / terminal assignment

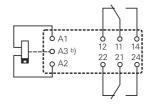
Bottom view on solder pins

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

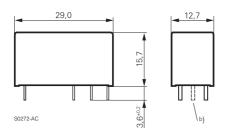
a)

^{*)} 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 key	Typical product key	RT	4	2	4	F24
Type RT Power PCB Relay RT2 bistable						
Version 4 8 A, pinning 5 mm, flux proof						
Contact configuration 2 2 CO contacts (2 form C)						
Contact material 4 AgNi 90/10						
Coil Coil code: please refer to coil versions table, pre	eferred 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
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