Power PCB Relay RT2 bistable

2 pole 8 A, polarized bistable version



Features

- 2 C/O contacts
- Bistable with 1 or 2 coils
- 5 kV / 10 mm coil-contact
- Height 15.7 mm
- Cadmium-free contacts
- Protection class II

Applications

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



Technical data of approved types on request

2 C/O contact
single contact
8 A
250 Vac / 440 Vac
2000 VA
15 A
AgNi 90/10

Coil data	1 coil	2 coils			
Nominal voltage	524 Vdc				
Nominal coil power	typ. 400 mW	typ. 600 mW			
Minimum energization time	30 ms				
Information on reduced pulse duration with higher energization voltages on demand					
Max. energization time for version with 2 coils	1 min at <10% duty cycle				
Reset voltage min.	70 % U _{nom}	70 % U _{nom}			
Reset voltage max.	120 % U _{nom}	150 % U _{nom}			

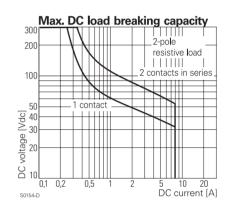
Coil versions, bistable

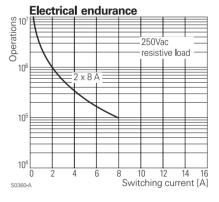
Coil	Nominal	Pull-in	Reset	Coil	Coil		
code	voltage	voltage	voltage	resistance	current		
	Vdc	Vdc	Vdc Ω		lc Vdc Ω		mA
bistable,	1 coil						
A05	5	3.5	3.5	62±10%	80.0		
A06	6	4.2	4.2	90±10%	66.7		
A12	12	8.4	8.4	360±10%	33.3		
A24	24	16.8	16.8	1440±10%	16.7		
bistable,	2 coils						
F05	5	3.5	3.5	42±10%	120.0		
F06	6	4.2	4.2	55±10%	110.0		
F12	12	8.4	8.4	240±10%	50.0		
F24	24	16.8	16.8	886±10%	27.0		
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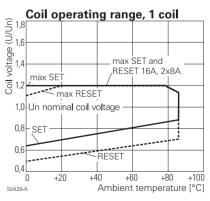
All figures are given for coil without preenergization, at ambient temperature +20°C Other coil voltages on request

Coils - operation

Version	1 coil			2 coils		
Coil terminals	A1	A2	A1	А3	A2	
Pull-in	+	-		+	-	
Reset	-	+	-	+		
Contact position not defined at delivery						









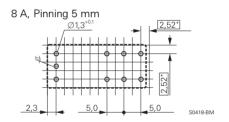
Insulation					
Dielectric strength	coil-contacts	5000 V _{rms}			
	open contact circuit	1000 V _{rms}			
	adjacent contacts	2500 V _{rms}			
Clearance / creepage	10 / 10 mm				
Insulation to IEC 60664					
Voltage rating		250 V			
Pollution degree		3			
Overvoltage	category	III			
Insulation to VDE 0110b (2/79)					
Insulation category / reference voltage C / 250					

Other data				
Flammability class according to UL 94	V-0			
Coil insulation system according to UL 1446	Class F			
Ambient temperature	1 coil	-10+85 °C		
	2 coils	-40+85 °C		
Mechanical life	2x10 ⁶	operations		
Max. switching rate at rated-/minimum load	6 min ⁻¹	/ 600 min ⁻¹		
Operate- / release time	typ.	5 / 3 ms		
Bounce time N/O contact/N/C contact	typ. 1 / 4 ms			
Vibration resistance / shock resistance				
opening N/C contact	3/5g			
opening closed N/O contact	6 / 15 g			
Shock resistance (destruction)	100 g			
Category of protection (IEC 61810)	flux proof			
Relay weight	13 g			
Packaging unit	1 coil	20 / 500 pcs.		
	2 coils	25 / 100 pcs.		
Accessories	see acc	essories RT		

Coil operating range, 2 coils 1,8 1,6 max SET max RESET 1,0 Un nominal coil voltage 0,8 SET 0,4 0 +20 Ambient temperature [°C]

PCB layout / terminal assignment

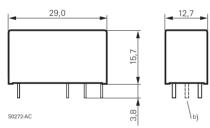
View on solder pins Dimensions in mm



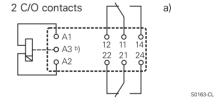
*) With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.

Dimensions

Dimensions in mm



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



Product key	RT	4	2	4	
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Туре					
Version		_			
4 8 A, pinning 5 mm, flux proof					
Contacts					
2 2 C/O contacts					
Contact material					
4 AgNi 90/10					
Coil					-
Coil 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 C/O contacts	AgNi 90/10	bistable	12 Vdc	4-1393243-6
RT424A24	pinning 5 mm			1 coil	24 Vdc	4-1393243-7
RT424F12	flux proof			bistable	12 Vdc	5-1393243-4
RT424F24				2 coils	24 Vdc	5-1393243-6



