Power PCB Relay RT1 bistable

1 pole 16 A, polarized bistable version

Farnell InOne 4148599 & 4148605



Features

- 1 C/O contact
- 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"

F0176-B

CRUIS Technical data of approved types on request

Contact data	
Configuration	1 C/O contact
Type of contact	single contact
Rated current	16 A
Rated voltage / max.breaking voltage	250 Vac / 440 Vac
Rated breaking capacity	4000 VA
Make current (max. 4 s at duty cycle 10%)	30 A
Contact material	AgNi 90/10



Contact ratings

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Туре	Load	Operations	Standard
RT334	20 A, 250 Vac	6x10 ³	UL 508
RT314	³/ ₄ hp, 240 Vac; ¹/ ₃ hp, 240 Vac		UL 508
RT314	Pilot duty B300		

1 coil	2 coils			
524 Vdc				
typ. 400 mW	typ. 600 mW			
30 ms				
Information on reduced pulse duration with higher energization voltages on demand				
oils 1 min at <10% duty cycle				
120 % U _{nom}	150 % U _{nom}			
,	1 coil 52 typ. 400 mW 30 her energization volt 1 min at <10 120 % U _{nom}			

Coil versions, bistable

Coil	Nominal	Pull-in	Reset	Coil	Coil
code	voltage	voltage	voltage	resistance	current
	Vdc	Vdc	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

All figures are given for coil without preenergization, at ambient temperature +20°C Other coil voltages on request

Coils - operation

Edition: 02/2004

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







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Insulation		
Dielectric strength	coil-contacts	5000 V _{rms}
	open contact circuit	1000 V _{rms}
Clearance / creepage	Э	10 / 10 mm
Insulation to IEC 606	64	
Voltage rating		250 V
Pollution degree		3
Overvoltage	category	111
Insulation to VDE 01	10b (2/79)	
Insulation c	ategory / reference voltage	C / 250
Tracking resistance	of relay base	CTI 250



PCB layout / terminal assignment

View on solder pins

Dimensions in mm

16 A, pinning 5 mm



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



Product key

S0272-AC

Other data

Mechanical life

Relay weight

Accessories

Dimensions

29,0

Packaging unit

Ambient temperature

Operate- / release time

Flammability class according to UL 94

Bounce time N/O contact/N/C contact

Vibration resistance / shock resistance

opening N/C contact

Shock resistance (destruction)

Category of protection (IEC 61810)

Coil insulation system according to UL 1446

Max. switching rate at rated- / minimum load

opening closed N/O contact

15,7

3,8

Туре				
Version				
3	16 A, pinning 5 mm, flux proof			
Contacts				
1	1 C/O contact			
Contact m	material			
4	AgNi 90/10			
Coil				

V-0

Class F

5x10⁶ operations

6 min⁻¹ / 600 min⁻¹

typ. 5 / 4 ms

typ. 1/3 ms

3/5g 6/15g

100 g

RT II - flux proof

13 g

see accessories RT

a) Indicated contact position during or after coil

energization with reset voltage.

1 coil

2 coils

1 coil

2 coils

b) for 2 coil version only

-10...+85 °C

-40...+85 °C

20 / 500 pcs.

25 / 100 pcs.

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Coil code: please refer to coil versions table, preferred types in bold print

12,7

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Product key	Version	Contacts	Cont. material	Coil	Coil	Part number
RT314A12	16 A	1 C/O contact	AgNi 90/10	bistable	12 Vdc	8-1393239-0
RT314A24	pinning 5 mm			1 coil	24 Vdc	8-1393239-1
RT314F12	flux proof			bistable	12 Vdc	8-1393239-7
RT314F24				2 coils	24 Vdc	8-1393239-8





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