



2001-11-15

## PRODUKTINFORMATION

Vi reserverar oss mot fel samt förbehåller oss rätten till ändringar utan föregående meddelande

### ELFA artikelnr

<b>37-204-48</b>	<b>Bistbilt relä 2 växl 5 VDC</b>	<b>RT424F05</b>
<b>37-204-55</b>	<b>Bistbilt relä 2 växl 12VDC</b>	<b>RT424F12</b>
<b>37-204-71</b>	<b>Bistbilt relä 2 växl 24VDC</b>	<b>RT424F24</b>

# Power PCB Relay RT2 bistable

2 pole 8 A, polarized bistable version



- 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 (VDE 0700)

### Applications

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

F0176-B



Technical data of approved types on request

### Contact data

Configuration	2 C/O contact
Type of contact	single contact
Rated current	8 A
Rated voltage / max. breaking voltage AC	250 Vac / 440 Vac
Maximum breaking capacity AC	2000 VA
Make current (max. 4 s at duty cycle 10%)	15 A
Contact material	AgNi 90/10

### Coil data

	1 coil	2 coils
Nominal voltage	5...24 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		
Reset voltage min.	70 % U <sub>nom</sub>	70 % U <sub>nom</sub>
Reset voltage max.	120 % U <sub>nom</sub>	150 % U <sub>nom</sub>

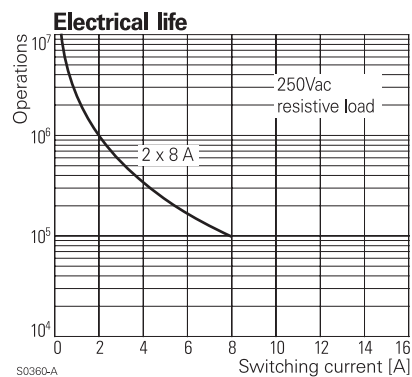
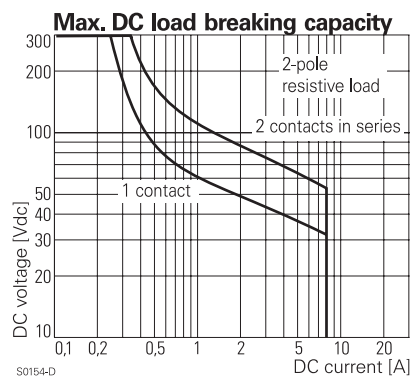
### Coil versions, bistable

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Reset voltage Vdc	Coil resistance Ω	Coil current mA
<b>bistable, 1 coil</b>					
A05	5	3.5	3.5	62±10%	80.0
A06	6	4.2	4.2	90±10%	66.7
<b>A12</b>	<b>12</b>	<b>8.4</b>	<b>8.4</b>	<b>360±10%</b>	<b>33.3</b>
<b>A24</b>	<b>24</b>	<b>16.8</b>	<b>16.8</b>	<b>1440±10%</b>	<b>16.7</b>
<b>bistable, 2 coils</b>					
F05	5	3.5	3.5	42±10%	120.0
F06	6	4.2	4.2	55±10%	110.0
<b>F12</b>	<b>12</b>	<b>8.4</b>	<b>8.4</b>	<b>240±10%</b>	<b>50.0</b>
<b>F24</b>	<b>24</b>	<b>16.8</b>	<b>16.8</b>	<b>886±10%</b>	<b>27.0</b>

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	A3	A2
Pull-in	+	-	+	-	-
Reset	-	+	-	+	-
Contact position not defined at delivery					



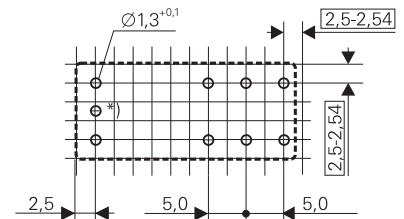
# Power PCB Relay RT2 bistable

2 pole 8 A, polarized bistable version

Insulation		
Dielectric strength	coil-contacts	5000 V <sub>rms</sub>
	open contact circuit	1000 V <sub>rms</sub>
	adjacent contacts	2500 V <sub>rms</sub>
Clearance / creepage		10 / 10 mm
Insulation to IEC 664/VDE 0110 (1/89)		
Voltage rating		250 V
Pollution degree		3
Overvoltage category		III
Insulation to VDE 0110b (2/79)		
Insulation category / reference voltage		C / 250

## PCB layout / terminal assignment

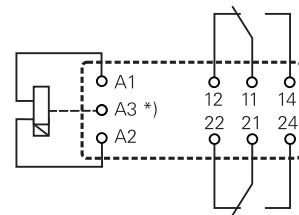
View on solder pins  
Dimensions in mm  
8 A, pinning 5 mm



S0163-CM

Other data		
Flammability class UL	V-0	
Ambient temperature	-40...+85 °C	
Mechanical life	2x10 <sup>6</sup> operations	
Max. switching rate at rated- / minimum load	6 min <sup>-1</sup> / 600 min <sup>-1</sup>	
Operate- / release time	typ. 5 / 3 ms	
Bounce time N/O contact/N/C contact	typ. 1 / 4 ms	
Shock resistance (destruction)	100 g	
Protection category	IP40	
Relay weight	13 g	
Packaging unit	1 coil	20 / 500pcs.
	2 coils	25 / 100pcs.
Accessories	see accessories RT	

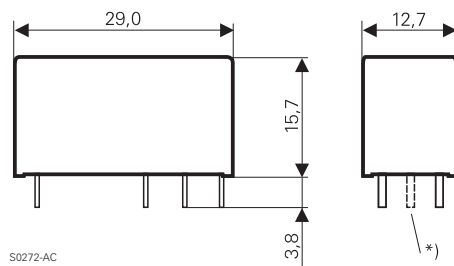
2 C/O contacts



S0163-BL

## Dimensions

Dimensions in mm



S0272-AC

Indicated contact position while or after coil energization with reset voltage.

\*) for 2 coil version only

## Ordering key

Type	<b>R</b> <b>T</b>	<b>4</b>	<b>2</b>	<b>4</b>		
Version	4 8 A, pinning 5 mm, flux-tight					
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					