

Power PCB Relay RT1

1 pole 12 / 16 A, DC- or AC-coil



Features

- 1 C/O or 1 N/O contact
- Sensitive coil 400 mW / 0,75 VA
- 5 kV / 10 mm coil-contact, Protection class II (VDE 0700)
- Ambient temperature 85°C (DC-coil)
- Height 15.7 mm
- Sockets with PCB-type or screw-type terminals
- Gold plated contacts available

Applications

Boiler control, timers, garage door control, POS automation, interface modules







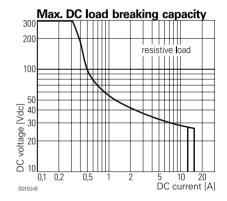


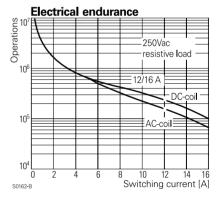
CRAUS (BEAR) (S) (FI) (\$)
Technical data of approved types on request

Contact data		
Configuration	1 C/O contact of	or 1 N/O contact
Type of contact	single	contact
Rated current	12 A	16 A
Rated voltage / max.breaking voltage AC	250 Vac	/ 440 Vac
Maximum breaking capacity AC	3000 VA	4000 VA
Make current (max. 4 s at duty cycle 10%)	25 A	30 A
Contact material	AgNi 90/10, AgNi	90/10 gold plated

Contact ratings				
Туре	Load	Operations		
RT314	1000 W, 250 Vac, incandescent lamps	1.2x10 ³		
RT314	16 A, 250 Vac, cosφ=1, N/C contact	53x10 ³		
RT314	10 A, 250 Vac, cosφ=0.6, C/O contact	2x10 ⁵		
RT314	5 A / 2 A, 250 Vac, cosφ=1, tumble-drier motor, N/O contact	1.1x10 ⁶		
RT314	0.26A _{peak} / 0.01 A, 230 Vac. cosø=0.38, valve, N/O contact	7.6x10 ⁶		

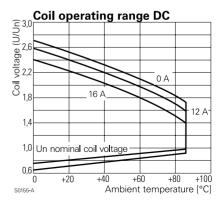
Coil data		
Nominal voltage	DC coil	5110 Vdc
	AC coil	24230 Vac
Nominal coil power	DC coil	400 mW
	AC coil	0.75 VA
Operate category		2 / b





Coil vei	rsions, DC-c	oil				
Coil	Nominal	Pull-in	Release	Maximum	Coil	Coil
code	voltage	voltage	voltage	voltage	resistance	current
	Vdc	Vdc	Vdc	Vdc	Ω	mA
005	5	3.5	0.5	12.7	62±10%	80.0
006	6	4.2	0.6	15.3	90±10%	66.7
012	12	8.4	1.2	30.6	360±10%	33.3
024	24	16.8	2.4	61.2	1440±10%	16.7
048	48	33.6	4.8	122.4	5520±10%	8.7
060	60	42.0	6.0	153.0	7340±12%	8.1
110	110	77.0	11.0	280.5	26600±12%	4.1

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



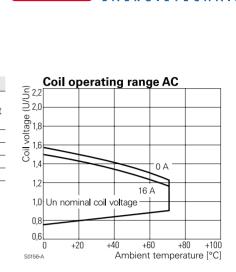




Power PCB Relay RT1

1 pole 12 / 16 A, DC- or AC-coil

Coil ver	sions, AC-c	oil				
Coil	Nominal	Pull-in	Release	Maximum	Coil	Coil
code	voltage	voltage	voltage	voltage	resistance	current
	Vac	Vac	Vac	Vac	Ω	mA
524	24	18.0	3.6	36.0	350±10%	31.6
615	115	86.3	17.3	172.5	8100±15%	6.6
730	230	172.5	34.5	345.0	32500±15%	3.2
All figures are given for coil without preenergization, at ambient temperature +20°C						



Insulation		
Dielectric strength	coil-contacts	5000 V _{rms}
	open contact circuit	1000 V _{rms}
Clearance / creepage	9	10 / 10 mm
Insulation to IEC 606	664	
Voltage ratir	ng	250 V
Pollution degree		3
Overvoltage category		III
Insulation to VDE 01	10b (2/79)	
Insulation ca	ategory / reference voltage	C / 250
Tracking resistance of relay base		CTI 250

Other data		
Flammability class according to UL 94		V-0
Coil insulation system according to UL 1446	Class F	
Ambient temperature	DC-coil	-40+85 °C
	AC-coil	-40+70 °C
Mechanical life	DC-coil	>30x10 ⁶ operations
	AC-coil	>10x10 ⁶ operations
Max. switching rate at rated- / minimum load	6 min ⁻	¹ / 1200 min ⁻¹
Operate- / release time DC-coil	typ	. 7 / 3 ms
Bounce time N/O contact/N/C contact	typ	. 1 / 3 ms
Vibration resistance N/O / N/C contact	20 / 5 g	g, 30500 Hz
Shock resistance (destruction)		100 g
Category of protection (IEC 61810)	RT II - flux pro	of, RT III - wash tight
Relay weight		14 g
Packaging unit	20	/ 500 pcs.
Accessories	see ac	cessories RT





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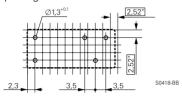
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PCB layout / terminal assigment

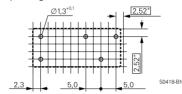
View on solder pins Dimensions in mm

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

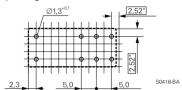
12 A, pinning 3.5 mm



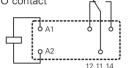
12 A, pinning 5 mm



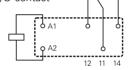
16 A, pinning 5 mm



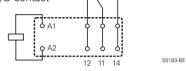
1 C/O contact



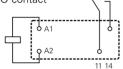
1 C/O contact



1 C/O contact

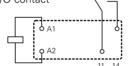


1 N/O contact

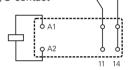


1 N/O contact

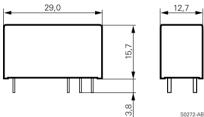
S0163-BG



1 N/O contact



Dimensions



Product key

Туре

Version

- 12 A, pinning 3.5 mm, flux proof 12 A, pinning 5 mm, flux proof
- 16 A, pinning 5 mm, flux proof Contacts
- 1 C/O contact Contact material

Coil Coil code: please refer to coil versions table

Preferred types in bold print

4 AgNi 90/10

R T

12 A, pinning 3.5 mm, wash tight

12 A, pinning 5 mm, wash tight

16 A, pinning 5 mm, wash tight

5 AgNi 90/10 gold plated (for type RT31.)

3 1 N/O contact

S0163-BC





reser
design
data/
appu

S0163-BF