

## **Power PCB Relay RT1**

- 1 pole 12 / 16 A, 1 CO or 1 NO contact
- **■** DC- or AC-coil
- Sensitive coil 400 mW
- 5 kV / 10 mm coil-contact, reinforced insulation
- Ambient temperature 85°C (DC-coil)
- WG version: Product in accordance to IEC60335-1
- RoHS compliant (Directive 2002/95/EC) as per product date code 0413



F0144-B

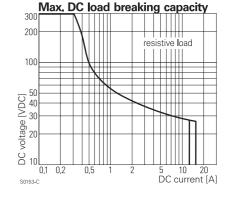
### **Applications**

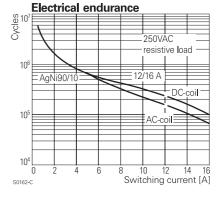
Boiler control, timers, garage door control, POS automation, interface modules

A	p	pr	O	Vá	al	S

REG.-Nr. 6106, c Sus E214025, C 14385, EAD C0786, KEUR 98.4118.01, Technical data of approved types on request

Contact data			
Contact configuration	1 CO or 1	NO contact	
Contact set	single contact		
Type of interruption	micro disconnection		
Rated current	12 A	16 A	
Rated voltage / max.switching voltage AC	250/400 VAC		
Limiting continuous current		UL: 20 A	
Maximum breaking capacity AC	3000 VA	4000 VA	
Limiting making capacity, max 4 s, df 10%	25 A	30 A	
Contact material	AgNi 90/10, AgN	i 90/10 gold plated	
Mechanical endurance DC coil	> 30 x 10 <sup>6</sup> cycles		
AC coil	> 10 x 10 <sup>6</sup> cycles		
Rated frequency of operation with / without load	6 / 120	00 min <sup>-1</sup>	





**Contact ratings** 

00111401	raungo	
Туре	Load	Cycles
RT314	16 A, 250 VAC, NO contact, 85°C, DF 10%, UL508	50x10 <sup>3</sup>
RT314	16 A, 250 VAC, NC contact, 70°C, 30min <sup>-1</sup>	53x10 <sup>3</sup>
RT314	20 A, 250 VAC, NO contact, 85°C, UL508	6x10 <sup>3</sup>
RT314	1000 W incandescent lamp, 250 VAC	1.2x10 <sup>3</sup>
RT314	10 A, 250 VAC, cosφ=0.6, CO contact, 70°C	200x10 <sup>3</sup>
RT314	5 A / 2 A, 250 VAC, cosφ=1, motor, NO contact, 10min <sup>-1</sup> , 70°C	1.1x10 <sup>6</sup>
RT314	0.26 A / 0.01 A, 230 VAC, cosφ=0.38, valve, NO contact, 25min <sup>-1</sup>	7.6x10 <sup>6</sup>
RT314	Pilot duty A300 (NO contact), B300 (CO/NC contact), UL508	
RT314	1hp @ 240 VAC, 1/2hp @ 120 VAC, NO contact, UL508	
RT314	AC15, 6 A, 250 VAC, NO and NC contact, 85°C, EN60947-5-1	
RT314	DC13, 2 A / 24 VDC, 0.2 A / 250 VDC, NO and NC contact, 85°C, I	EN60947-5-1

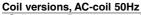
Coil data	
Rated coil voltage range DC coil	5110 VDC
AC coil	24230 VAC
Coil power DC coil	typ 400 mW
AC coil	typ 0.75 VA
Operative range	2
Coil insulation system according UL1446	class F



### Power PCB Relay RT1 (Continued)

Coil vers	ions, DC-coil				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDČ	VDC	VDČ	Ohm	mW
005	5	3.5	0.5	62±10%	403
006	6	4.2	0.6	90±10%	400
009	9	6.3	0.9	200±10%	400
012	12	8.4	1.2	360±10%	400
024	24	16.8	2.4	1440±10%	400
048	48	33.6	4.8	5520±10%	417
060	60	42.0	6.0	8570±12%	420
110	110	77.0	11.0	28800±12%	420

All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request

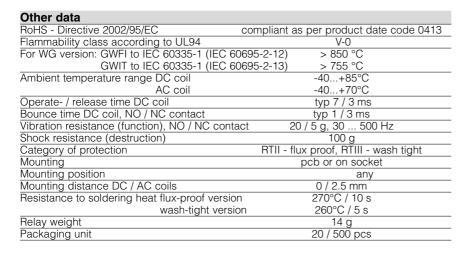


	,				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
		50 Hz	50 Hz		50 Hz
	VAC	VAC	VAC	Ohm	VA
524	24	18.0	3.6	350±10%	0.76
615	115	86.3	17.3	8100±15%	0.76
620	120	90.0	18.0	8800±15%	0.75
700	200	150.0	30.0	24350±15%	0.76
730	230	172.5	34.5	32500±15%	0.74

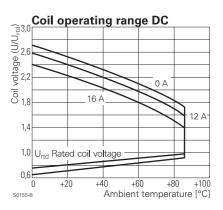
All figures are given for coil without preenergization, at ambient temperature +23°C

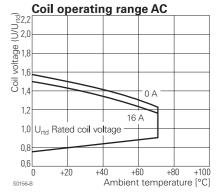
#### Insulation 5000 V<sub>rms</sub> Dielectric strength coil-contact circuit open contact circuit $1000 \; V_{rms}$ Clearance / creepage coil-contact circuit ≥ 10 / 10 mm ≥ IIIa Material group of insulation parts Tracking index of relay base PTI 250 V Insulation to IEC 60664-1 Type of insulation coil-contact circuit reinforced open contact circuit functional Rated insulation voltage 250 V

on to IEC 60664-1
Type of insulation coil-contact circuit open contact circuit
Rated insulation voltage 250 V
Pollution degree 12 A version 3 3
Rated voltage system 240 V
Overvoltage category III







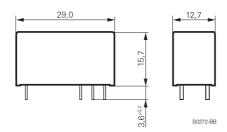


change.



## Power PCB Relay RT1 (Continued)

#### **Dimensions**

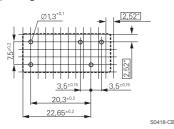


### PCB layout / terminal assignment

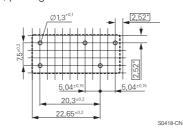
Bottom view on solder pins

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

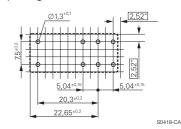
#### 12 A, pinning 3.5 mm



#### 12 A, pinning 5 mm



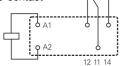
16 A, pinning 5 mm



S0163-BE

S0163-BE

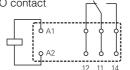
1 CO contact

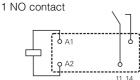


1 CO contact



1 CO contact

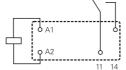




1 NO contact

S0163-BG

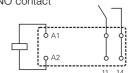
S0163-BH



1 NO contact

S0163-B0

S0163-BD



Product key



AgNi 90/10

Contact material

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

Coil code: please refer to coil versions table

Version

Coil

Blank Standard version

Product in accordance with IEC 60335-1 (domestic appliances)

Preferred types in bold print

\*) Wash tight version on request





## Power PCB Relay RT1 (Continued)

Product key	Version	Contacts	Cont. material	Coil	Coil	Part number
RT114005	12 A	1 CO contact	AgNi 90/10	DC-coil	5 VDC	0-1393239-7
RT114006	pinning 3.5 mm				6 VDC	0-1393239-8
RT114012	flux proof				12 VDC	0-1419108-1
RT114024	· ·				24 VDC	1-1393239-3
RT114048					48 VDC	1-1393239-4
RT114110					110 VDC	1-1393239-6
RT114524				AC-coil	24 VAC	1-1393239-7
RT114615					115 VAC	1-1393239-8
RT114730					230 VAC	1-1393239-9
RT134012		1 NO contact		DC-coil	12 VDC	2-1393239-6
RT134024					24 VDC	3-1393239-0
RT214012	12 A, pinning 5mm	1 CO contact			12 VDC	5-1393239-4
RT214024	flux proof				24 VDC	5-1393239-5
RT314005	16 A				5 VDC	9-1393239-1
RT314006	pinning 5 mm				6 VDC	9-1393239-3
RT314012	flux proof				12 VDC	9-1393239-5
RT314024	'				24 VDC	9-1393239-8
RT314048					48 VDC	0-1393240-1
RT314060					60 VDC	0-1393240-2
RT314110					110 VDC	0-1393240-3
RT314524				AC-coil	24 VAC	0-1393240-4
RT314615					115 VAC	0-1393240-6
RT314730					230 VAC	0-1393240-7
RT315012			AgNi 90/10	DC-coil	12 VDC	1-1393240-1
RT315024			gold plated		24 VDC	1-1393240-4
RT315730				AC-coil	230 VAC	1-1419108-1
RT334012		1 NO contact	AgNi 90/10	DC-coil	12 VDC	4-1393240-5
RT334024					24 VDC	4-1393240-8
RT334048					48 VDC	5-1393240-0
RTB14005	12 A	1 CO contact			5 VDC	1-1393238-2
RTB14012	pinning 3.5 mm				12 VDC	1-1393238-5
RTB14024	wash tight				24 VDC	1-1393238-9
RTB14048					48 VDC	2-1393238-1
RTD14005	16 A				5 VDC	5-1393238-9
RTD14006	pinning 5 mm				6 VDC	6-1393238-0
RTD14012	wash tight				12 VDC	6-1393238-2
RTD14015					15 VDC	6-1393238-4
RTD14024					24 VDC	6-1393238-8
RTD14048					48 VDC	6-1393238-9
RTD34005		1 NO contact			5 VDC	8-1393238-3
RTD34012					12 VDC	3-1419108-5
RTD34024					24 VDC	3-1419108-8

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