

## **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

### **Applications**

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



REG.-Nr. 6106, CRU us E214025. Technical data of approved types on request

## Contract data

Contact ratings

Туре

IEC 61810

RT314 DC-coil

RT314 DC-coil RT314 DC-coil

Contact Load

NO

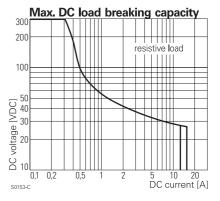
CO

NO

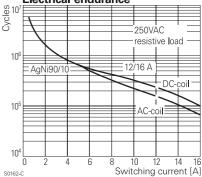
Contact data			
Contact configuration	1 CO or 1 NO contact		
Contact set	single contact		
Type of interruption	micro dis	sconnection	
Rated voltage / max. switching voltage AC	250 / 400 VAC		
Rated current	12 A	16 A	
Limiting continuous current	12 A	16 A, UL: 20 A	
Maximum breaking capacity AC	3000 VA	4000 VA	
Limiting making capacity, max 4 s, df 10%	25 A	30 A	
Contact material	AgNi 90/10, AgN	Ni 90/10 gold plated	
Rated frequency of operation with / without load	ad DC coil: 6 / 1200 min <sup>-1</sup>		
	AC coil: 6 / 600 min <sup>-1</sup>		
Operate- / release time DC coil	max 8 / 6 ms		
Bounce time DC coil, NO / NC contact	max 4 / 6 ms		



F0144-C



**Electrical endurance** 



	110	1070, 4000, 0000 = 1	00 0	100/10
RT114 DC-coil	NO	12 A, 250 VAC, cosφ=1	85°C	50x10 <sup>3</sup>
RT114 AC-coil	NO	12 A, 250 VAC, cosφ=1	70°C	100x10 <sup>3</sup>
UL 508				
RT314	NO / NC	20 A, 250 VAC, general purpose	85°C	6x10 <sup>3</sup>
RT334	NO	16 A, 250 VAC, general purpose	85°C	50x10 <sup>3</sup>
RT314	NO	1 hp, 240 VAC	40°C	1x10 <sup>3</sup>
EN60947-5-1				
RT314 DC-coil	NO / NC	2 A, 24 VDC DC13		6.050
EN60730-1				
RT314 DC-coil	NO	12(2) A, 250 VAC	85°C	100x10 <sup>3</sup>

16 A, 250 VAC, cosφ=1 16 A, 250 VAC, cosφ=1 10 A, 400 VAC, cosφ=1

Coll data		
Rated coil voltage range DC coil	5110 VDC	
AC coil	24230 VAC	
Operative range to IEC 61810	2	
Coil insulation system according UL1446	class F	

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Dimensions are in mm unless otherwise specified and are shown for reference purposes only.

Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

Ambient

temp. [°C]

85°C

85°C

85°C

Cycles

30x10<sup>3</sup>

10x10<sup>3</sup>

<u>15</u>0x10<sup>3</sup>

processing information only to be used together with the 'Definitions' section in the catalogue or at schrackrelays.com in the 'Schrack' section.

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Specifications subject to change.

## Power PCB Relay RT1 (Continued)

#### Coil versions, DC-coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
COUE	0	0	0		
	VDC	VDC	VDC	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
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All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request

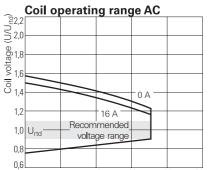
#### Coil versions, AC-coil 50Hz

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	age resistance p	
		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>		
1000 V <sub>rms</sub>		
≥ 10 / 10 mm		
Illa		
PTI 250 V		
reinforced		
micro disconnection		
250 V		
3	3	
3	2	
240 V	230 / 400 V	
	III	
	100 ≥ 10 PTI reir micro dis 3 3	

#### Coil operating range DC voltage (U/U<sub>rtd</sub>) 5'7 5'7 16 A version 0 A 16 A 12 A 1,4 Recommende voltage rang 1,0 U<sub>rtd</sub> 0,6 +40 +100 0 +60 +80 +20Ambient temperature [°C] S0155-CA



+40

0

S0156-C

+20

40 +60 +80 +100 Ambient temperature [°C]

## Other data

Mechanical endurance DC coil	> 30 x 10 <sup>6</sup> cycles		
AC coil	> 10 x 10 <sup>6</sup> cycles		
Material			
RoHS - Directive 2002/95/EC compli	ant as per product date code 0413		
Resistance to heat and fire, WG version	according EN60335-1, par.30		
Environment			
Ambient temperature range DC coil	-40+85°C		
AC coil	-40+70°C		
Vibration resistance (function), NO / NC cont.	20 / 5 g, 30 500 Hz		
Shock resistance (destruction)	100 g		
Category of protection RT	II - flux proof, RTIII - wash tight		
Processing	<u>v</u>		
Mounting	pcb or on socket		
Mounting position	any		
Mounting distance DC / AC coils	$\geq$ 0 / $\geq$ 2.5 mm		
Resistance to soldering heat flux-proof versio	n 270°C / 10 s		
wash-tight version	on 260°C / 5 s		
Relay weight	14 g		
Packaging unit	20 / 500 pcs		
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Accessories			

For details see datasheet

Accessories Power Relay RT

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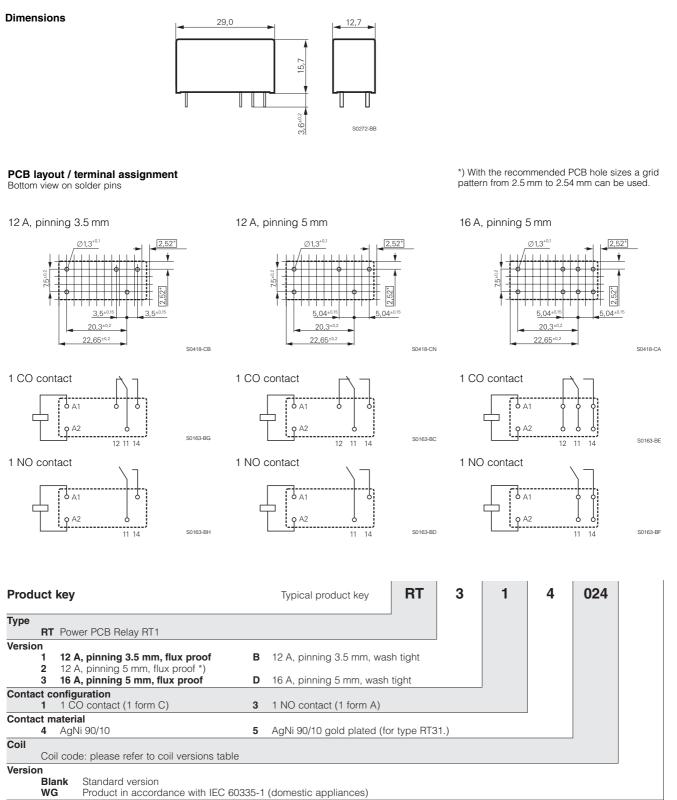
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Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

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## Power PCB Relay RT1 (Continued)



Preferred types in bold print

\*) Wash tight version on request

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## 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	1393239-7
RT114006	pinning 3.5 mm		0 .		6 VDC	1393239-8
RT114012	flux proof				12 VDC	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	1393240-1
RT314060					60 VDC	1393240-2
RT314110					110 VDC	1393240-3
RT314524				AC-coil	24 VAC	1393240-4
RT314615					115 VAC	1393240-6
RT314730					230 VAC	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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