

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



F0144-C

Applications

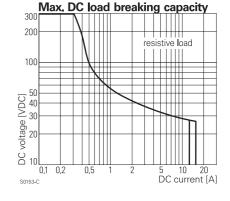
Boiler control, timers, garage door control, POS automation, interface modules

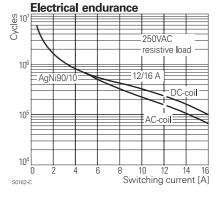
Approvals

PEG.-Nr. 6106, c Sus E214025, c 14385, EES C0786

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 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, AgNi 90/10 gold plated			
Rated frequency of operation with / without load	DC coil: 6 / 1200 min ⁻¹			
	AC coil: 6 / 600 min ⁻¹			
Operate- / release time DC coil	max 8 / 6 ms			
Bounce time DC coil, NO / NC contact	max 4 / 6 ms			





Contact ratings

Туре	Contact	Load	Ambient	Cycles
.,,,,,	oonaaa	2000	temp. [°C]	0,0.00
IEC 61810			, , ,	
RT314 DC-coil	NO	16 A, 250 VAC, cosφ=1	85°C	30x10 ³
RT314 DC-coil	CO	16 A, 250 VAC, cosφ=1	85°C	10x10 ³
RT314 DC-coil	NO	10 A, 400 VAC, cosφ=1	85°C	150x10 ³
RT114 DC-coil	NO	12 A, 250 VAC, cosφ=1	85°C	50x10 ³
RT114 AC-coil	NO	12 A, 250 VAC, cosφ=1	70°C	100x10 ³
UL 508				
RT314	NO / NC	20 A, 250 VAC, general purpose	85°C	6x10 ³
RT334	NO	16 A, 250 VAC, general purpose	85°C	50x10 ³
RT314	NO	1 hp, 240 VAC	40°C	1x10 ³
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 ³

Coil 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



Power PCB Relay RT1 (Continued)

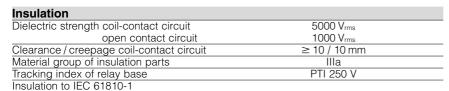
Coil vers	ions, DC-coil				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ohm	mW
005	5	3.5	0.5	62±10%	403
006	6	4.2	0.6	90±10%	400
009	9	6.3	0.9	200±10%	400
012	12	8.4	1.2	360±10%	400
024	24	16.8	2.4	1440±10%	400
048	48	33.6	4.8	5520±10%	417
060	60	42.0	6.0	8570±12%	420
110	110	77 N	11 0	28800+12%	420

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

Coil versions, AC-coil 50Hz

Con vers	ions, AC-con	DUNZ			
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
A 11 C1	, ,	11 111 1			2000

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



Type of insulation coil-contact circuit reinforced open contact circuit micro disconnection Rated insulation voltage 250 V Pollution degree 12 Å version 3 3 16 A version .3 Rated voltage system 240 V 230 / 400 V





according EN60335-1, par.30 Resistance to heat and fire, WG version 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

Packaging unit

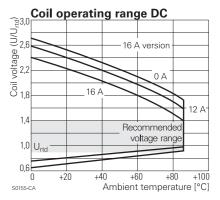
RTII - flux proof, RTIII - wash tight

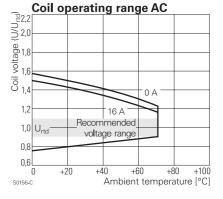
Processing

Mounting pcb or on socket Mounting position any ≥ 0 / ≥ 2.5 mm Mounting distance DC / AC coils Resistance to soldering heat flux-proof version 270°C / 10 s wash-tight version 260°C / 5 s 14 g Relay weight 20 / 500 pcs



Accessories Power Relay RT For details see datasheet

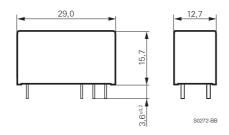






Power PCB Relay RT1 (Continued)

Dimensions

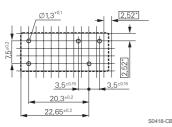


PCB layout / terminal assignment

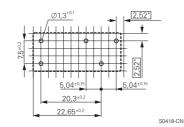
Bottom view on solder pins

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

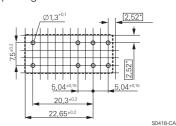
12 A, pinning 3.5 mm



12 A, pinning 5 mm



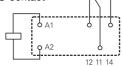
16 A, pinning 5 mm



S0163-BE

S0163-BE

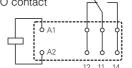
1 CO contact

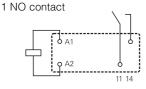


1 CO contact

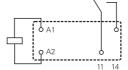


1 CO contact





1 NO contact



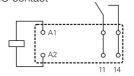
1 NO contact

1

S0163-B0

S0163-BD

3



Product key



4 024

Type

Version

- 12 A, pinning 3.5 mm, flux proof 12 A, pinning 5 mm, flux proof *) 16 A, pinning 5 mm, flux proof
 - 16 A, pinning 5 mm, wash tight

S0163-BG

S0163-BH

Contact configuration

1 CO contact (1 form C) 1

Contact material

AgNi 90/10 Coil

1 NO contact (1 form A) AgNi 90/10 gold plated (for type RT31.)

12 A, pinning 3.5 mm, wash tight

Coil code: please refer to coil versions table

Version

Blank Standard version

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

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	1393239-7
RT114006	pinning 3.5 mm				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

change.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for General Purpose Relays category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below:

PCN-105D3MH,000 59641F200 5JO-1000CD-SIL LY1SAC110120 5X827E 5X837F 5X840F 5X842F 5X848E LY2N-AC120 LY2S-AC220/240 LY2-US-AC120 LY3-US-AC120 LY4F-UA-DC12 LY4F-UA-DC24 LY4F-US-AC120 LY4F-US-AC240 LY4F-US-DC24 LY4F-VD-AC110 LYQ20DC12 M115C60 M115N010 M115N0150 6031007G 603-12D 61211T0B4 61212T400 61222Q400 61243B600 61243C500 61243Q400 61311BOA2 61311BOA6 61311BOA8 61311COA2 61311COA1 61311COA6 61311F0A2 61311QOA1 61311QOA4 61311T0D6 61311TOA6 61311TOA7 61311TOB3 61311TOB4 61311U0A6 61312Q600 61312T400 61312T600 61313U200