Interface Power Relay RT

- **1 pole 12 / 16 A, 2 pole 8 A, 1 CO contact or 2 CO contacts**
- **DC- or AC coil**
- **Sensitive coil 400 mW**
- **Reinforced insulation, protection class II (VDE 0700)**
- **5 kV / 10 mm coil-contact**
- **1pole 12 A with 3.5 or 5 mm pinning**
- **Recycleable packaging**
- **RoHS compliant (Directive 2002/95/EC) as per product date code 0413**

F0269-A

Applications

Panel boards, mechanical engineering

Approvals

VDE REG.-Nr. 6106, cULus E214025

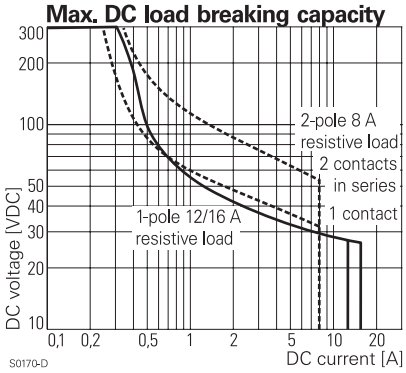
Technical data of approved types on request

Contact data	1-pole	2-pole
Contact configuration	1 CO	2 CO
Contact set	single contact	
Type of interruption	micro disconnection	
Rated current	12 / 16 A	8 A
Rated voltage / max.switching voltage AC	240/400 VAC	
Maximum breaking capacity AC	3000 / 4000 VA	2000 VA
Limiting making capacity,max 4 s, df 10%	25 / 30 A	15 A
Contact material	AgNi 90/10	
Mechanical endurance DC coil	> 30 x 10^6	>30 x 10^6
AC coil	> 10 x 10^6	>5 x 10^6
Rated frequency of operation with / without load	6 / 1200 min^{-1}	

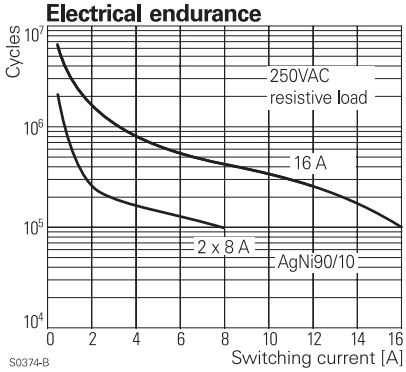
Contact ratings

Type	Load	Cycles
RT314	16 A, 250 VAC, NO contact, 85°C, DF 10%, UL508	50x10^3
RT314	16 A, 250 VAC, NC contact, 70°C, 30min^{-1}	53x10^3
RT314	16 A, 250 VAC, CO contact, VDE 0435	30 x 10^3
RT314	1000 W incandescent lamp, 250 VAC	1.2x10^3
RT314	10 A, 250 VAC, cosφ=0.6, CO contact, 70°C	200x10^3
RT314	5 A / 2 A, 250 VAC, cosφ=1, motor, NO contact, 10min^{-1}, 70°C	1.1x10^6
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, EN60947-5-1	
RT424	8 A, 250 VAC, NO contact, 70°C, EN61810-1	100x10^3
RT424	6(2) A, 250 VAC, NO/NC contact, 85°C; EN60730-1	100x10^3
RT424	1/2hp @ 240 VAC, 1/4hp @ 120 VAC, UL508	
RT424	Pilot duty B300, UL508	
RT424	8 A, 30 VDC, General Purpose, UL508	

Max. DC load breaking capacity



Electrical endurance



Coil data

Rated coil voltage range DC coil	5...110 VDC
AC coil	24...230 VAC
Coil power DC coil	typ 400 mW
AC coil	typ 0.75 VA
Operative range	2
Coil insulation system according UL1446	class F

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Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.

Interface Power Relay RT (Continued)

Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
006	6	4.2	0.6	90±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

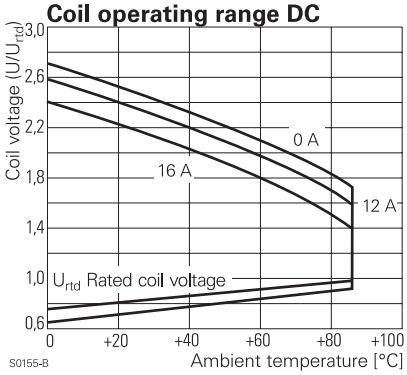
All figures are given for coil without preenergization, at ambient temperature +23°C
Other coil voltages on request

Coil versions, AC-coil 50Hz

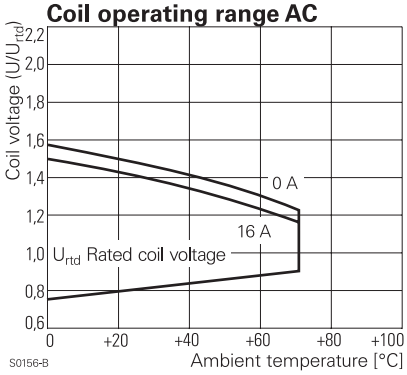
Coil code	Rated voltage VAC	Operate voltage 50 Hz VAC	Release voltage 50 Hz VAC	Coil resistance Ohm	Rated coil power 50 Hz VA
524	**24**	**18.0**	**3.6**	**350±10%**	**0.76**
615	115	86.3	17.3	8100±15%	0.76
730	**230**	**172.5**	**34.5**	**32500±15%**	**0.74**

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

Coil operating range DC



Coil operating range AC



Insulation	
Dielectric strength coil-contact circuit	5000 V_{rms}
open contact circuit	1000 V_{rms}
adjacent contact circuits	2500 V_{rms}
Clearance / creepage coil-contact circuit	≥ 10 / 10 mm
Material group of insulation parts	≥ IIIa
Tracking index of relay base	PTI 250 V
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	functional
adjacent contact circuits	basic
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	240/400 V
Overvoltage category	III

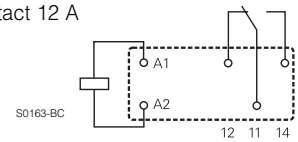
Other data	**1-pole**	**2-pole**
RoHS - Directive 2002/95/EC	compliant as per product date code 0413	
Flammability class according to UL94	V-0	
Ambient temperature range DC coil	-40...+85°C	
AC coil	-40...+70°C	
Operate- / release time DC coil	typ 7 / 3 ms	typ 7 / 2 ms
Bounce time DC coil, NO / NC contact	typ 1 / 3 ms	typ 1 / 3 ms
Vibration resistance (function), NO / NC contact	20 / 5 g, 30 ... 500 Hz	
Shock resistance (destruction)	100 g	
Category of protection	RTII	
Mounting distance	0 mm, dense packing	
Relay weight	14 g	
Packaging unit	20 / 500 pcs	

Accessories	
For Details see datasheet	Accessories Interface Power Relay RT

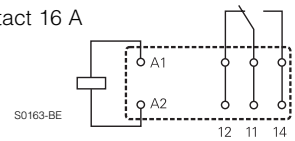
Relay Packages
Complete packages consisting of a relay mounted on a socket see Package RT

Terminal assignment
Bottom view on pins

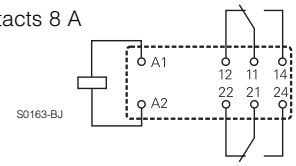
1 CO contact 12 A



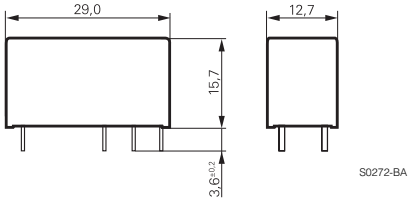
1 CO contact 16 A



2 CO contacts 8 A



Dimensions



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Interface Power Relay RT (Continued)

Product key

R	T			4			

Type

Version
- **1** 1-pole, 12 A, pinning 3.5 mm
- **2** 1-pole, 12 A, pinning 5 mm
- **3** 1-pole, 16 A, pinning 5 mm
- **4** 2-pole, 8 A, pinning 5 mm

Contact configuration
- **1** 1 CO contact
- **2** 2 CO contacts

Contact material
- **4** AgNi 90/10

Coil
Coil code: please refer to coil versions table, preferred types in bold print

Wash tight version on request

Product key	Version	Contacts	Cont. material	Coil	Coil	Part number
RT114024	1-pole, 12 A pinning 3.5 mm	1 CO contact	AgNi 90/10	DC-coil	24 VDC	1-1393239-3
RT114524				AC-coil	24 VAC	1-1393239-7
RT114615					115 VAC	1-1393239-8
RT114730					230 VAC	1-1393239-9
RT214024	1-pole, 12 A pinning 5 mm			DC-coil	24 VDC	5-1393239-5
RT214524				AC-coil	24 VAC	5-1393239-9
RT214615					115 VAC	6-1393239-0
RT214730					230 VAC	0-1419108-6
RT314024	1-pole, 16 A pinning 5 mm			DC-coil	24 VDC	9-1393239-8
RT314524				AC-coil	24 VAC	0-1393240-4
RT314615					115 VAC	0-1393240-6
RT314730					230 VAC	0-1393240-7
RT424024	2-pole, 8 A pinning 5 mm	2 CO contacts		DC-coil	24 VDC	6-1393243-8
RT424524				AC-coil	24 VAC	7-1393243-6
RT424615					115 VAC	7-1393243-8
RT424730					230 VAC	7-1393243-9

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HDH		однофазное	40A, 80A, 100A, 120A	48...440 V AC	Напряжение 3...32 V DC	ZD3	Тиристор (SCR)
HT		трехфазное	10A, 25A, 40A, 60A, 80A	48...440 V AC	Напряжение 90...250 V AC2	ZA2	Симистор (TRIAC)
		трехфазное	10A, 25A, 40A, 60A, 80A, 100A, 120A	48...440 V AC	Напряжение 3...32 V DC	ZD3	Симистор (TRIAC)
BDH		однофазное	100A, 120A, 150A, 200A, 250A	48...440 V AC	Напряжение 3...32 V DC	ZD3	Тиристор (SCR)

QR код