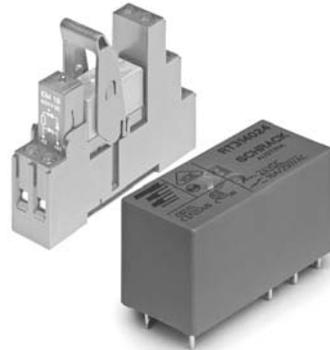


Interface Power Relay RT

- 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
- 1 pole 12 A with 3.5 or 5 mm pinning
- Recycleable packaging



F0269-C

Applications

Panel boards, mechanical engineering

Approvals

VDE REG.-Nr. 6106, **UL** us E214025
 Technical data of approved types on request

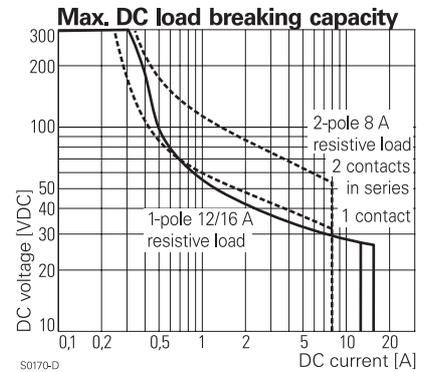
Contact data	1-pole	2-pole
Contact configuration	1 CO	2 CO
Contact set	single contact	
Type of interruption	micro disconnection	
Rated voltage / max. switching voltage AC	240 / 400 VAC	
Rated current	12 / 16 A	8 A
Maximum breaking capacity AC	3000 / 4000 VA	2000 VA
Limiting making capacity, max 4 s, df 10%	25 / 30 A	15 A
Contact material	AgNi 90/10	
Rated frequency of operation DC coil with / without load	6 / 1200 min ⁻¹	
AC coil with / without load	6 / 600 min ⁻¹	
Operate- / release time DC coil	max 8 / 6 ms	max 10 / 5 ms
Bounce time DC coil, NO / NC contact	max 4 / 6 ms	max 4 / 9 ms

Contact ratings

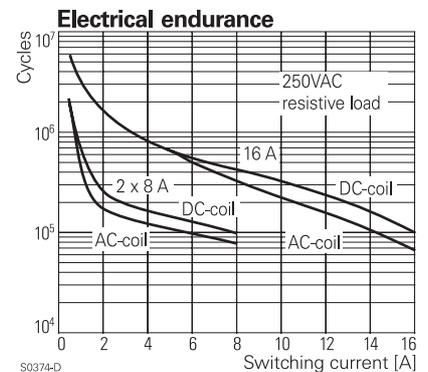
Type	Contact	Load	Ambient temp. [°C]	Cycles
IEC 61810				
RT314 DC-coil	NO	10 A, 400 VAC, cosφ=1	85°C	150x10 ³
RT314 AC-coil	NO	16 A, 250 VAC, cosφ=1	70°C	50x10 ³
RT314 AC-coil	CO	16 A, 250 VAC, cosφ=1	70°C	10x10 ³
RT424 AC coil	CO	8 A, 250 VAC, cosφ=1	70°C	30x10 ³
UL 508				
RT314	NO	16 A, 250 VAC, general purpose, DF: 10%	85°C	50x10 ³
RT314	NO	A300	40°C	6x10 ³
RT314	NC	B300	40°C	6x10 ³
RT314	NO	240 VAC, 1 hp	40°C	1x10 ³
RT424 DC coil	NO / NC	8 A, 30 VDC, general purpose	85°C	6x10 ³
RT424 DC coil	NO	10 A, 250 VAC, general purpose	85°C	30x10 ³
RT424 DC coil	NO / NC	motor, 1/2 hp, 240 VAC	85°C	1x10 ³
RT424 DC coil	NO / NC	pilot duty, B300, R300	85°C	6x10 ³
EN60730-1				
RT314 DC-coil	NO	12(2) A, 250 VAC	85°C	100x10 ³
RT424 DC coil	NO / NC	6(2) A, 250 VAC	85°C	100x10 ³

Coil data

Rated coil voltage range DC coil	5...110 VDC
AC coil	24...230 VAC
Operative range to IEC 61810	2
Coil insulation system according UL1446	class F



S0170-D



S0374-D

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 VAC	Release voltage VAC	Coil resistance Ohm	Rated coil power 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

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 61810-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	micro disconnection
Rated insulation voltage	250 V
Pollution degree	
12 A version	3
16 A version	3
2 x 8 A version	3
Rated voltage system	240 V
Overtension category	230 / 400 V
	III

Other data

	1-pole	2-pole
Mechanical endurance DC coil	> 30 x 10 ⁶	> 30 x 10 ⁶
AC coil	> 10 x 10 ⁶	> 5 x 10 ⁶
Material	RoHS - Directive 2002/95/EC compliant as per product date code 0413	
Environment		
Ambient temperature range DC coil	-40...+85°C	
AC coil	-40...+70°C	
Vibration resistance (function), NO / NC contact	20 / 5 g, 30 ... 500 Hz	
Shock resistance (destruction)	100 g	
Category of protection	RTII	
Processing		
Mounting distance	dense packing of sockets	
Relay weight	14 g	
Packaging unit	20 / 500 pcs	

Accessories

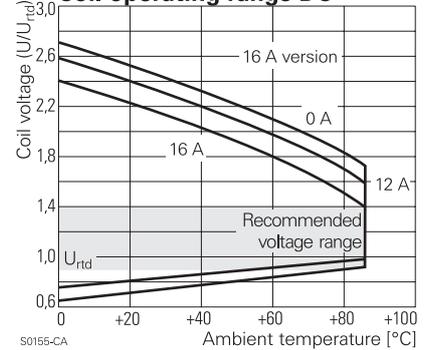
For Details see datasheet Accessories Interface Power Relay RT

NOTE: indicated contact ratings and electrical endurance data for direct wiring of relays (according IEC 61810-1, table 12); for relays mounted on sockets deratings may apply.

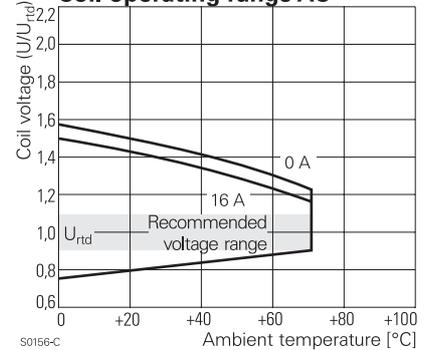
Relay Packages

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

Coil operating range DC



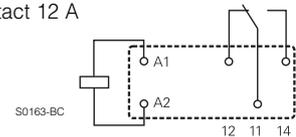
Coil operating range AC



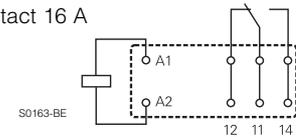
Terminal assignment

Bottom view on pins

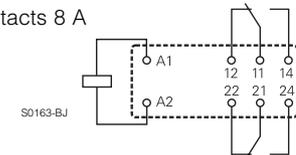
1 CO contact 12 A



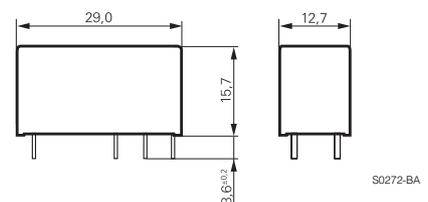
1 CO contact 16 A



2 CO contacts 8 A



Dimensions



Interface Power Relay RT (Continued)

Product key	Typical product key					RT	3	1	4	024
Type	RT Interface Power relay RT									
Version	1 1-pole, 12 A, pinning 3.5 mm		3 1-pole, 16 A, pinning 5 mm							
	2 1-pole, 12 A, pinning 5 mm		4 2-pole, 8 A, pinning 5 mm							
Contact configuration	1 1 CO contact (1 form C)					2 2 CO contacts (2 form C)				
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	1419108-6
RT314024	1-pole, 16 A pinning 5 mm			DC-coil	24 VDC	9-1393239-8
RT314524				AC-coil	24 VAC	1393240-4
RT314615					115 VAC	1393240-6
RT314730					230 VAC	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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