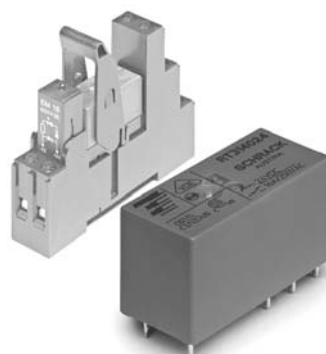


Interface Power Relay RT

- 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, **CE** us E214025
Technical data of approved types on request

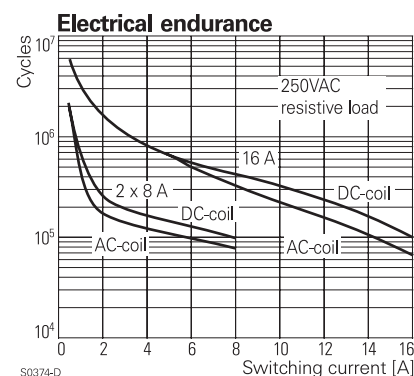
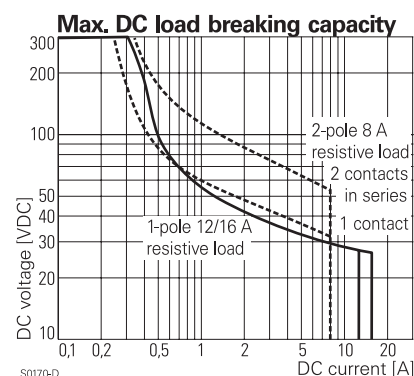
Contact data	1-pole	2-pole
Contact configuration	1 CO	2 CO
Contact set	single contact	
Type of interruption	micro disconnection	
Rated voltage / max. switching voltage AC	240 / 400 VAC	
Rated current	12 / 16 A	8 A
Maximum breaking capacity AC	3000 / 4000 VA	2000 VA
Limiting making capacity, max 4 s, 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



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

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 230 / 400 V
Overvoltage category	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	100 g	
Shock resistance (destruction)	RTII	
Category of protection		
Processing		
Mounting distance	dense packing of sockets	
Relay weight	14 g	
Packaging unit	20 / 500 pcs	

Accessories

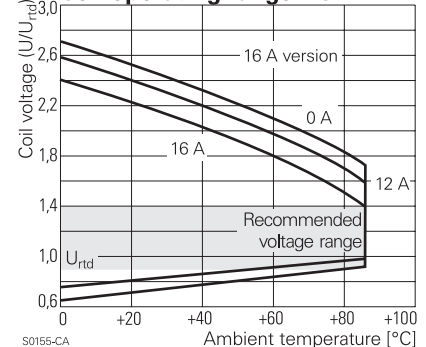
For Details see datasheet Accessories Interface Power Relay RT

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.

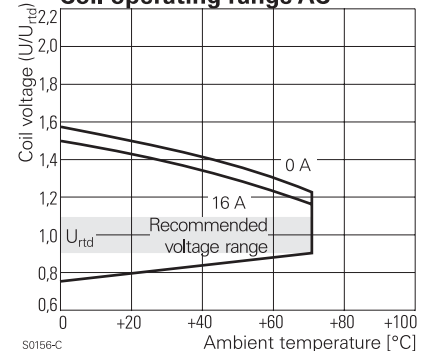
Relay Packages

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

Coil operating range DC



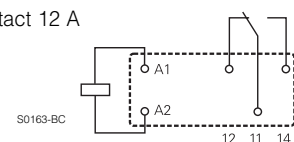
Coil operating range AC



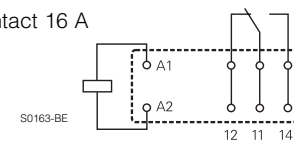
Terminal assignment

Bottom view on pins

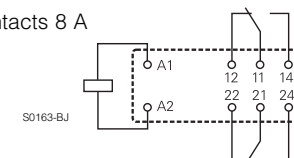
1 CO contact 12 A



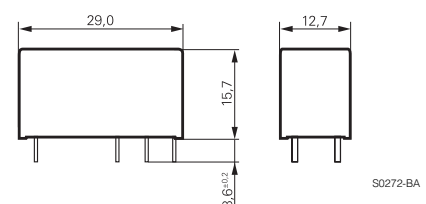
1 CO contact 16 A



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)
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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