

Interface Power Relay RT

1 pole 12 / 16 A, 2 pole 8 A, DC- or AC coil



F0159-A

- 1 C/O 12 or 16 A or 2 C/O 8 A
- Sensitive coil 400 mW
- Cadmium-free contacts
- Protection class II (VDE 0700)
- 5 kV / 10 mm coil-contact
- 1 pole 12 A with 3.5 or 5 mm pinning
- Plug-in relay with robust pins
- Recycleable packaging

Applications
Panel boards, mechanical engineering



Technical data of approved types on request

Contact data

Configuration	1 C/O contact	2 C/O contact
Type of contact	single contact	
Rated current	12 / 16 A	8 A
Rated voltage / max. breaking voltage AC	250 Vac / 440 Vac	
Maximum breaking capacity AC	3000 / 4000 VA	2000 VA
Make current	25 / 30 A	15 A
Contact material	AgNi 90/10	
Minimum contact load	24 V, 10 mA / 20 mV, 1 mA gold plated	

Contact life

Type	Load	Operations	Standard
RT314	16 A, 250 Vac, C/O contact	3x10 ⁴	VDE 0435

Coil data

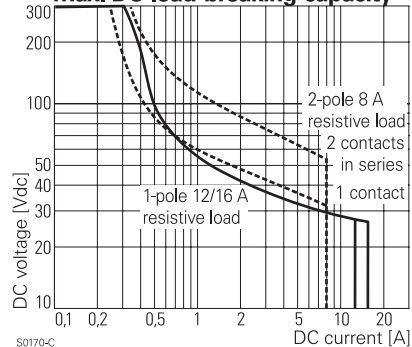
Nominal voltage	DC coil	6...110 Vdc
	AC coil	24...230 Vac
Nominal coil power	DC coil	400 mW
	AC coil	0.75 VA
Operate category	2 / b	

Coil versions, DC-coil

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
006	6	4.2	0.6	15.3	90±10%	66.7
012	12	8.4	1.2	30.6	360±10%	33.3
024	24	16.8	2.4	61.2	1440±10%	16.7
048	48	33.6	4.8	122.4	5520±10%	8.7
060	60	42.0	6.0	153.0	7340±12%	8.1
110	110	77.0	11.0	280.5	26600±12%	4.1

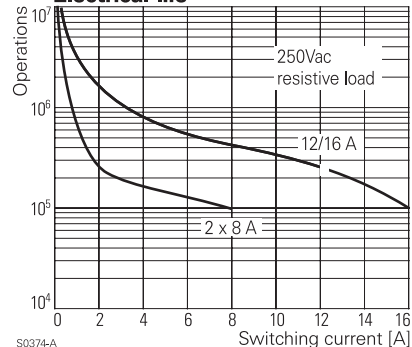
All figures are given for coil without preenergization, at ambient temperature +20°C
Other coil voltages on request

Max. DC load breaking capacity



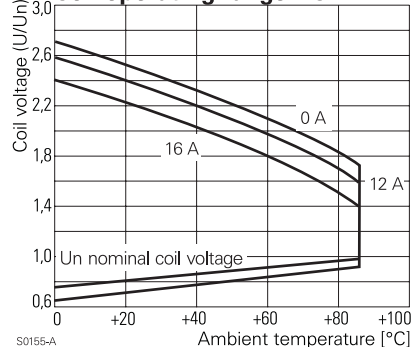
S0170-C

Electrical life



S0374-A

Coil operating range DC



S0155-A

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Coil versions, AC-coil

Coil code	Nominal voltage Vac	Pull-in voltage Vac	Release voltage Vac	Maximum voltage Vac	Coil resistance Ω	Coil current mA
524	24	18.0	7.2	36.0	350\pm10%	31.6
615	115	86.3	34.5	172.5	8100 \pm 15%	6.6
730	230	172.5	69.0	345.0	32500\pm15%	3.2

All figures are given for coil without preenergization, at ambient temperature +20°C
Other coil voltages on request

Insulation

Dielectric strength	coil-contacts	5000 V _{rms}
	open contact circuit	1000 V _{rms}
	adjacent contacts	2500 V _{rms}
Clearance / creepage		$\geq 10 / 10$ mm
Insulation to IEC 664/VDE 0110 (1/89)		
	Voltage rating	250 V
	Pollution degree	3
	Overvoltage category	III
Insulation to VDE 0110b (2/79)		
	Insulation category / reference voltage	C / 250
Tracking resistance of relay base		CTI 250

Other data

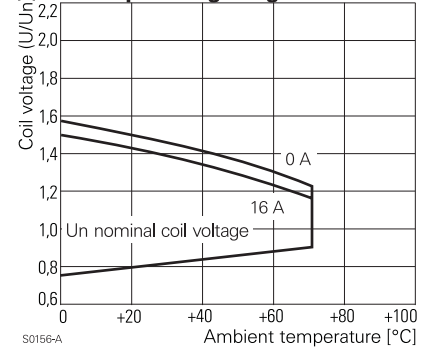
	1 C/O contact	2 C/O contacts
Flammability class UL		V-0
Ambient temperature		-40...+85 °C
Mechanical life	DC-coil >30x10 ⁶ ops. AC-coil >10x10 ⁶ ops.	>30x10 ⁶ ops. >5x10 ⁶ ops.
Max. switching rate at rated- / minimum load	6 min ⁻¹ / 1200 min ⁻¹	
Operate- / release time DC-coil	typ. 7 / 3 ms	typ. 7 / 2 ms
Bounce time N/O contact/N/C contact	typ. 1 / 3 ms	typ. 1 / 3 ms
Vibration resistance N/O / N/C contact	>10 / 5 g; 30...150 Hz	
Shock resistance (destruction)	>100 g	
Protection category	IP 50	
Relay weight	14 g	
Packaging unit	20 / 500 pcs.	
Accessories	see accessories RT	

Ordering key

Type	R	T				
Version	1	1-pole, 12 A, pinning 3.5 mm	3	1-pole, 16 A, pinning 5 mm	4	2-pole, 8 A, pinning 5 mm
Contact configuration	1	1 C/O contact	2	2 C/O contacts		
Contact material	4	AgNi 90/10				
Coil						

Washable version on request

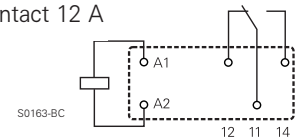
Coil operating range AC



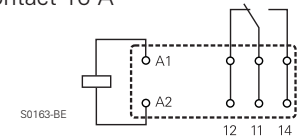
Terminal assignment

View on pins

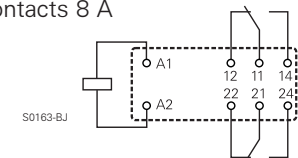
1 C/O contact 12 A



1 C/O contact 16 A

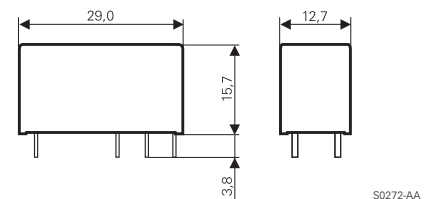


2 C/O contacts 8 A



Dimensions

Dimensions in mm



S0272-AA