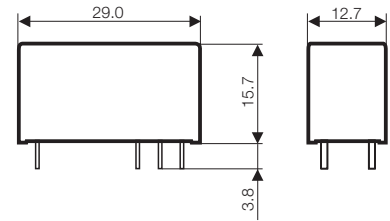
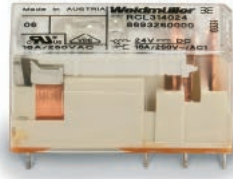


Relay couplers - RIDERSERIES

RCL relay 1 CO contact AC/DC coil

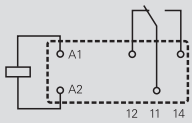
- 3000 or 4000 VA switching capacity
- Low height of 15.7 mm
- Hard gold-plated contacts available
- For boiler controls, timing relays, garage door controls, Interface modules



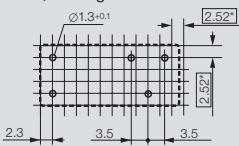
Circuit diagram

View of connections
Dimensions in mm

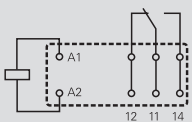
1 C/O changeover contacts



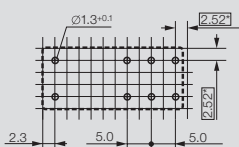
12 A, Pinning 3.5 mm



1 C/O changeover contacts



16 A, Pinning 5 mm



Output

max. switching voltage AC	250 V
Continuous current	12 A for 3.5 mm / 16 A for 5 mm pinning
Contact base material	AgNi 90/10 or AgNi 5µm Au
Mechanical endurance	AC coil 10x10 ⁶ / DC coil 30x10 ⁶ switching operations
Response time / Drop-out time	7 ms / 3 ms

Rated data

Status indicator/Free wheel diode	no/no
Operating temperature	-40 °C...+70 °C
UL 94 flammability rating	V-0
Approvals	cURus; VDE;

Insulation coordination (IEC 60664)

Rated voltage	250 V
Creepage and clearance path input - output	10 mm
Overvoltage category	III
Pollution severity	3
Protective separation to VDE 0106 part 101	yes

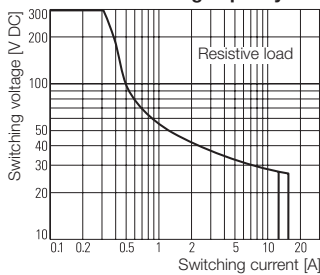
Dimensions

Length x width x height mm 29 / 12.7 / 15.7

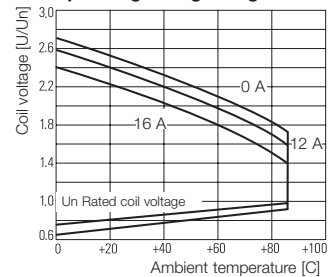
Note

Applications

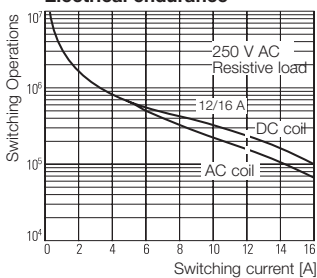
DC load breaking capacity



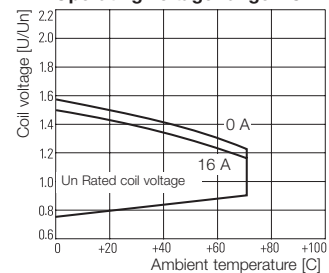
Operating voltage range DC



Electrical endurance

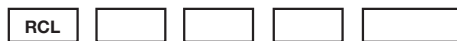


Operating voltage range AC



RCL relay
1 CO contact AC/DC coil

Type code



Type **RIDER Control Low**

Type of construction

- 1 12 A, Pitch 3.5 mm, flux proof
- 2 12 A, Pitch 5 mm, flux proof
- 3 16 A, Pitch 5 mm, flux proof

Type of contact

- 1 1 CO contacts
- 3 1 NO contacts

Contact material

- 4 AgNi 90/10
- 5 AgNi 90/10 hgp

DC coil

- 006 6 V DC
- 012 12 V DC
- 024 24 V DC
- 048 48 V DC
- 060 60 V DC
- 110 110 V DC

AC coil

- 512 12 V AC
- 524 24 V AC
- 548 48 V AC
- 615 115 V AC
- 730 230 V AC

Ordering data

Input	6 V DC 1CO	12 V DC 1CO	24 V DC 1CO	48 V DC 1CO
Rated voltage	6 V DC	12 V DC	24 V DC	48 V DC
DC Response/dropout Volt	4.2 V / 0.6 V	8.4 V / 1.2 V	16.8 V / 2.4 V	33.6 V / 4.8 V
Power rating	500 mW	500 mW	500 mW	500 mW
Rated current DC	66.7 mA	33.3 mA	16.7 mA	8.7 mA
Coil resistance	90 Ω ±10%	360 Ω ±10%	1440 Ω ±10%	5520 Ω ±10%

Ordering data Relay	6 V DC 1CO	12 V DC 1CO	24 V DC 1CO	48 V DC 1CO
12 A / 3.5 mm Type	RCL114006	RCL114012	RCL114024	RCL114048
AgNi 90/10 Order No.	8693400000	8693190000	8693180000	8693480000
16 A / 5 mm Type	RCL314006	RCL314012	RCL314024	RCL314048
AgNi 90/10 Order No.	8693800000	8693240000	8693260000	8693380000
16 A / 5 mm Type		RCL315012	RCL315024	RCL315048
AgNi 5µm Au Order No.		on request	8824830000	on request

Note	6 V DC 1CO	12 V DC 1CO	24 V DC 1CO	48 V DC 1CO

Ordering data

Input	24 V AC 1CO	48 V AC 1CO	115 V AC 1CO	230 V AC 1CO
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC
AC Response/dropout Volt	18.0 V / 3.6 V	64 V / 7.2 V	86.3 V / 17.3 V	172.5 V / 34.5 V
Power rating	0,75 VA	0,75 VA	0,75 VA	0,75 VA
Rated current AC	31.6 mA	15,6 mA	6.6 mA	3.2 mA
Coil resistance	1440 Ω ±10%	1420 Ω ±10%	8100 Ω ±15%	32500 Ω ±15%

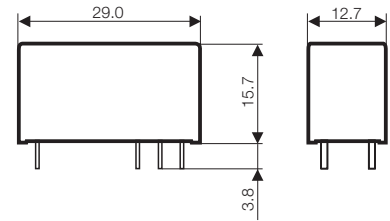
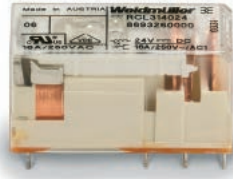
Ordering data Relay	24 V AC 1CO	48 V AC 1CO	115 V AC 1CO	230 V AC 1CO
12 A / 3.5 mm Type	RCL114524	RCL114548	RCL114615	RCL114730
AgNi 90/10 Order No.	8693220000	8693510000	8693390000	8693230000
16 A / 5 mm Type	RCL314524	RCL314548	RCL314615	RCL314730
AgNi 90/10 Order No.	8693500000	8693880000	8693890000	8693320000
16 A / 5 mm Type	RCL315524	RCL315548	RCL315615	RCL315730
AgNi 5µm Au Order No.	8824870000	on request	8824880000	8824890000

Note	24 V AC 1CO	48 V AC 1CO	115 V AC 1CO	230 V AC 1CO

Relay couplers - RIDERSERIES

RCL relay 2 CO contact AC/DC coil

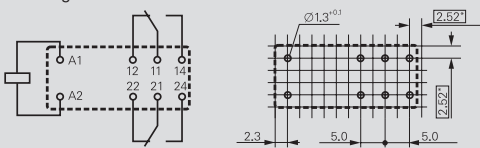
- 2000 VA switching capacity
- Low height of 15.7 mm
- Hard gold-plated contacts available
- For domestic appliances, heating controllers, emergency lighting systems, modems



Circuit diagram

View of connections
Dimensions in mm

2 C/O changeover contacts



Output

max. switching voltage AC	250 V
Continuous current	8 A / 1 contact
Contact base material	AgNi 90/10 or AgNi 5µm Au
Mechanical endurance	AC coil 5x10 ⁶ / DC coil 30x10 ⁶ switching operations
Response time / Drop-out time	7ms / 2ms

Rated data

Status indicator/Free wheel diode	no/no
Operating temperature	-40 °C...+70 °C
UL 94 flammability rating	V-0
Approvals	cURus; VDE;

Insulation coordination (IEC 60664)

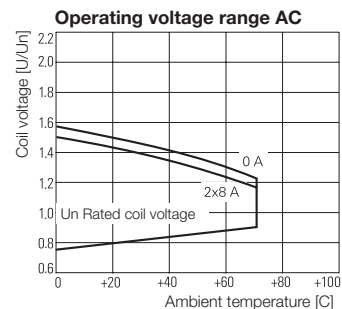
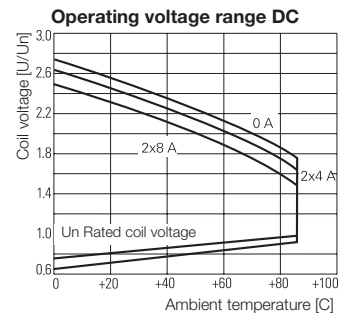
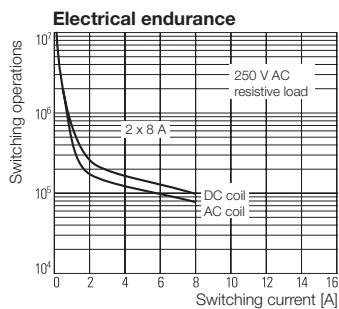
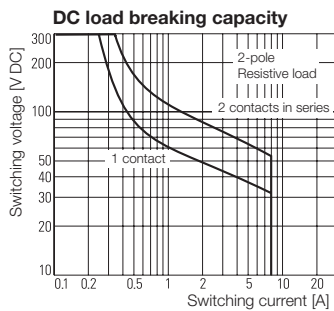
Rated voltage	250 V
Creepage and clearance path input - output	10 mm
Overvoltage category	III
Pollution severity	3
Protective separation to VDE 0106 part 101	yes

Dimensions

Length x width x height	mm	29 / 12.7 / 15.7
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Note

Applications



RCL relay
2 CO contact AC/DC coil

Type code



Type RIDER Control Low

Type of construction
4 8 A, pitch 5 mm, flux proof

Type of contact

2 2 CO contacts
4 2 NO contacts

Contact material

4 AgNi 90/10
5 AgNi 90/10 hgp

DC coil

006 6 V DC
012 12 V DC
024 24 V DC
048 48 V DC
060 60 V DC
110 110 V DC

AC coil

512 12 V AC
524 24 V AC
548 48 V AC
615 115 V AC
730 230 V AC

Ordering data

Input	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
Rated voltage	12 V DC	24 V DC	48 V DC	110 V DC
DC Response/dropout Volt	8,4 V / 1,2 V	16,8 V / 2,4 V	33,6 V / 4,8 V	77 V / 11 V
Power rating	500 mW	500 mW	500 mW	500 mW
Rated current DC	33,3 mA	16,7 mA	8,7 mA	4,1 mA
Coil resistance	360 Ω ±10%	1440 Ω ±10%	5620 Ω ±10%	26600 Ω ±12%

Ordering data Relay				
8 A / 5 mm Type	RCL 424012 12Vdc-Rel2U	RCL 424024 24Vdc-Rel2U	RCL424048	RCL 424110 110Vdc-Rel2U
AgNi 90/10 Order No.	4058560000	4058570000	4058750000	4058590000
Type Order No.				
8 A / 5 mm Type	RCL425012	RCL 425024 24Vdc-Rel2U	RCL425048	RCL425110
AgNi 5µm Au Order No.	on request	4058580000	on request	8828370000

Note				

Ordering data

Input	24 V AC 2CO	48 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC
AC Response/dropout Volt	18 V / 3,6 V	64 V / 7,2 V	86,3 V / 17,3 V	172,5 V / 34,5 V
Power rating	0,75 VA	0,75 VA	0,75 VA	0,75 VA
Rated current AC	31,6 mA	15,6 mA	6,6 mA	3,2 mA
Coil resistance	350 Ω ±10%	1420 Ω ±10%	8100 Ω ±15%	32500 Ω ±15%

Ordering data Relay				
8 A / 5 mm Type	RCL 424524 24Vac-Rel2U	RCL424548	RCL 424615 115Vac-Rel2U	RCL 424730 230Vac-Rel2U
AgNi 90/10 Order No.	4058600000	8693340000	4058610000	4058630000
Type Order No.				
8 A / 5 mm Type	RCL425524	RCL425548	RCL 425615 115Vac-Rel2U	RCL 425730 230Vac-Rel2U
AgNi 5µm Au Order No.	on request	on request	4058620000	4058640000

Note				

Relay couplers - RIDERSERIES

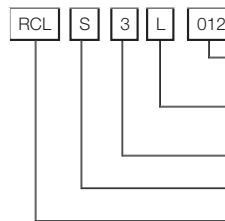
RCLS – Inrush Power

- 1 NO
- High making currents possible
- RCLS3L 120 A for max. 20 ms
- RCLS3T 165 A for max. 20 ms / 800 A for 200 µs
- New contact principle

Switching contact for AgSnO2



Switching contact for AgSnO2+W

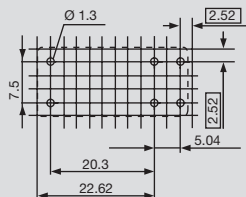
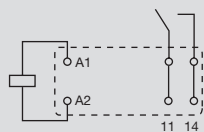


Coil
 012 = 12 V DC
 024 = 24 V DC
Contact material
 L = AgSnO2
 T = W-pre-make contact + AgSnO2
Type of contact
 3 = 1 NO
Version
 S = Inrush Power
Type = RCL

Circuit diagram

View of connections
Dimensions in mm

1 NO contact



Output

Max. switching voltage AC	240 V
Rated current	16 A
Max. switching current	120 A @ 20 ms (RCLS3L) 165 A @ 20 ms / 800 A @ 200 µs (RCLS3T)
Contact base material	AgSnO2 (RCLS3L) / AgSnO2 + W (RCLS3T)
Mechanical endurance	10 x 10 ⁶ (RCLS3L) / 5 x 10 ⁶ (RCLS3T)
Response time / Release time	10 ms / 4 ms

Rated data

Ambient temp., fitted w/o distance	-25 °C ... +70 °C
Flammability rating UL 94	V-0
Approvals	cURus / VDE

Insulation coordinates (IEC 60664)

Rated voltage	250 V
Creepage and clearance path input – output	10 mm
Overtoltage category	III
Pollution severity	2

Dimensions

Length x width x height	mm	29 / 12.7 / 15.7
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Information

Order data

Input	12 V DC 1NO	24 V DC 1NO	12 V DC 1NO	24 V DC 1NO
Rated voltage	12 V DC	24 V DC	12 V DC	24 V DC
Rated current DC	33.3 mA	16.7 mA	33.3 mA	16.7 mA
Power rating	400 mW	400 mW	400 mW	400 mW
Oper.-/drop-out volt. DC-coil	8.4 V / 1.2 V	16.8 V / 2.4 V	8.4 V / 1.2 V	16.8 V / 2.4 V

Order data

Break contact element	Type	Order No.	Order No.	Order No.	Order No.
		RCLS 3L012	RCLS 3L024	RCLS 3T012	RCLS 3T024
		8866890000	8866900000	8866910000	8866920000

Information

Contact material AgSnO2	Contact material AgSnO2	Contact material AgSnO2 + W	Contact material AgSnO2 + W
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