

**RIDERSERIES
RCL424048**

Weidmüller Interface GmbH & Co. KG
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Germany
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www.weidmueller.com



Standard relays in the RIDERSERIES RCL

- 2 CO contacts
- Low height of 15.7 mm

General ordering data

Order No.	4058750000
Type	RCL424048
Version	RIDERSERIES, Relais, No. of contacts: 2, CO contact, AgNi 90/10, Rated control voltage: 48 V DC, Continuous current: 8 A, Plug-in connection
GTIN (EAN)	4032248303212
Qty.	20 pc(s).

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Technical data
Ratings

Conductor connection system	Plug-in connection	Humidity	40 °C / 93 % rel. humidity, no condensation
Weight	13 g	UL 94 flammability rating	V-0

Dimensions and weights

Width	12.7 mm	Height	29 mm
Depth	15.7 mm	Weight	13 g
Net weight	12 g		

Temperatures

Operating temperature	-40 °C...+70 °C	Storage temperature	-40 °C...+85 °C
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Input

Rated control voltage	48 V DC	Rated current DC	8.7 mA
Coil resistance	5,520 Ω ±10 %	Power rating	420 mW
Pull-in (sparkover) / drop-out voltage DC coil	33.6 V / 4.8 V		

Output

Rated switching voltage	250 V AC	Continuous current	8 A
making current	15 A / 4 s	Max. switching power	2000 VA
Switch-on delay	≤ 8 ms	Switch-off delay	≤ 6 ms
Min. switching power	100 mA / 5 V, 10 V / 10 mA, 24 V / 1 mA	Max. switching frequency at rated load	0.1 Hz

Contact specifications

No. of contacts	2	Contact design	CO contact
Contact material	AgNi 90/10	Mechanical service life	AC coil 5 x 10 ⁶ Switching cycles, DC coil 30 x 10 ⁶ Switching cycles

Insulation coordination

Rated voltage	250 V	Clearance and creepage distances for control side - load side	≥ 10 mm
Dielectric strength for control side - load side	5 kV _{eff} / 1min	Protection degree	IP 20
Insulating material group	IIIa		

Other technical data

Version	Relay	Free-wheel diode	No
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Further details of approvals / standards

Standards	IEC 61810-1, UL508
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Technical data**Classifications**

ETIM 2.0	EC001437	ETIM 3.0	EC001437
UNSPSC	30-21-19-17	eClass 4.1	40-02-06-14
eClass 5.1	27-37-16-01	eClass 6.0	27-37-16-01
eClass 7.0	27-37-16-01		

Approvals

Approvals



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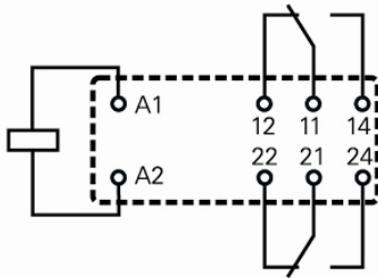
Drawings

Electric symbol

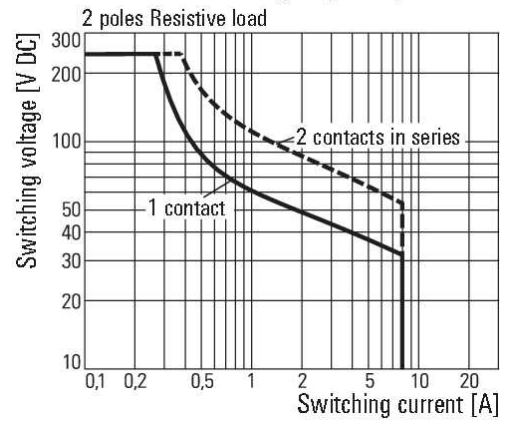
Circuit diagram

View on pins

2 C/O changeover contacts

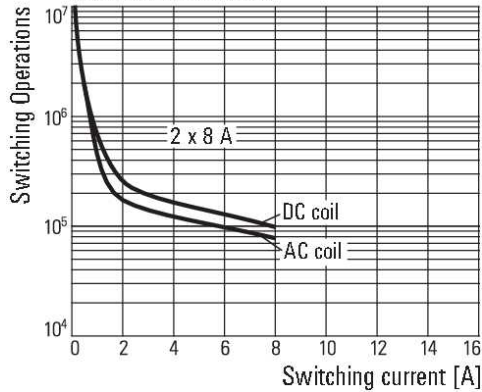


DC load breaking capacity



Electrical endurance

250 V AC Resistive load



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Mating connector (fully pluggable)

Tension clamp connection



TERMSERIES accessories include:

- Spare relay
- Base
- Partition plates
- Cross-connections
- Power-feed modules

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1124120000	TRZ 48VUC 2CO EMPTY	TERMSERIES, Relay base, Continuous current: 10 A, Tension clamp connection	4032248905607	10 pc(s).

Base



Relay base for RIDERSERIES RCL relays

- Screw and tension clamp connection
- Standard and low heights
- Plug-in frame for PCB connections

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
8693930000	SRC 2CO N	RIDERSERIES, Relay base, Screw connection	4032248365418	10 pc(s).

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Mating connector (fully pluggable)
Screw connection


TERMSERIES accessories include:

- Spare relay
- Base
- Partition plates
- Cross-connections
- Power-feed modules

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1124000000	TRS 48VUC 2CO EMPTY	TERMSERIES, Relay base, Continuous current: 10 A, Screw connection	4032248905850	10 pc(s).

Base


- Coupling relay with positively driven contacts: for monitoring signals within safety-critical circuits
- Relays with positively driven contacts have a 99% diagnostics coverage and an excellent reputation for use in safety systems.
- The contacts interlock with each other in order to ensure a synchronous switching status between both contacts. This guarantees that the alert contact will maintain the same switching status in the event of an error (for example, if the working contact melts from an overload).

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
8783930000	SRC 2CO Z	RIDERSERIES, Relay base, Tension clamp connection	4032248471430	10 pc(s).
8690830000	SRC 2CO	RIDERSERIES, Relay base, Screw connection	4032248361519	10 pc(s).

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Mating connector (fully pluggable)

Base



Relay base for the RIDERSERIES RCI relays

- 1 and 2 CO contacts
- Screw and PUSH IN connection
- Standard and low heights

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
8869500000	SRC-I 2CO P	RIDERSERIES, Relay base, Continuous current: 16 A ⁽¹⁾ , 8 A, PUSH IN spring connection	4032248614455	10 pc(s).