

**RIDERSERIES
RCI424AC4**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Germany
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www.weidmueller.com



Standard relays in the RIDERSERIES RCI.

- 2 CO contacts
- Relay with DC coil
- Relay with integrated status display and free-wheel diode

General ordering data

Order No.	8870180000
Type	RCI424AC4
Version	RIDERSERIES, Relais, No. of contacts: 2, CO contact, AgNi 90/10, Rated control voltage: 24 V DC, Continuous current: 8 A, Plug-in connection
GTIN (EAN)	4032248613540
Qty.	10 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	13 mm	Height	29 mm
Depth	25.5 mm	Weight	13 g
Net weight	17.3 g		

Temperatures

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

Rated control voltage	24 V DC	Rated current DC	16.7 mA
Coil resistance	1,440 Ω ±10 %	Power rating	400 mW
Pull-in (sparkover) / drop-out voltage DC coil	16.8 V / 2.4 V	Status indicator	Green LED

Output

Rated switching voltage	240 V AC	Max. switching voltage, AC	400 V
Continuous current	8 A	making current	15 A / 4 s
Max. switching power	2000 VA	Sparkover time / Drop-out time	10 ms / 4 ms
Min. switching power	12 V / 10 mA	Min. switching current	10 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 10 x 10 ⁶ Switching cycles

Insulation coordination

Rated voltage	250 V	Clearance and creepage distances for control side - load side	≥ 8 mm
Dielectric strength for control side - load side	5 kV _{eff} / 1min	Impulse withstand voltage	5 kV (1.2/50 μs)
Protection degree	IP 20	Insulating material group	IIIa
Surge voltage category	III		

Other technical data

Version	With LED + freewheel diode	Status indicator	Green LED
Free-wheel diode	Yes		

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

**Downloads**Declaration of Conformity [K295_12_10.pdf](#)

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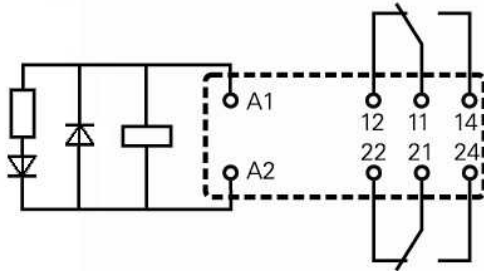
Drawings

Pinning

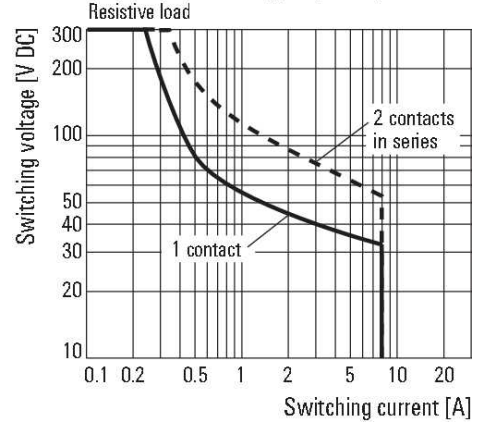
Circuit diagram

View on pins

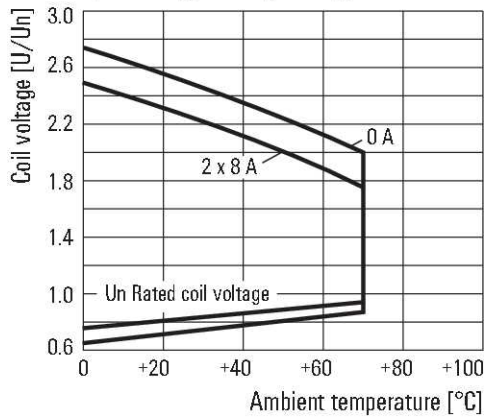
2 C/O changeover contacts



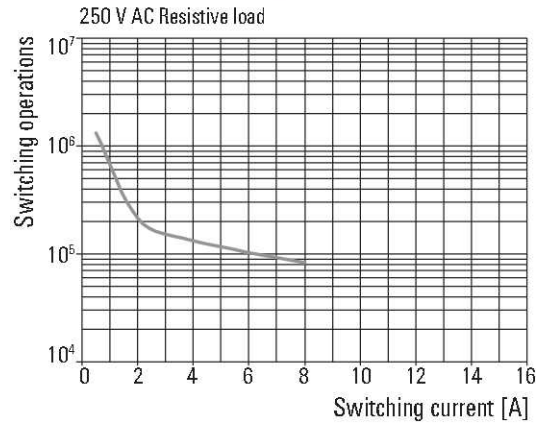
DC load breaking capacity



Operating voltage range DC



Electrical endurance



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Accessories

LED



Pluggable protective modules for the RIDERSERIES RCI / RCM relay base, with optional protective functions.

- With either green or red LED
- For UC supply voltage

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
8869640000	RIM-I 3 6/24VUC GN	RIDERSERIES, Accessories	4032248614585	10 pc(s).
8869630000	RIM-I 3 6/24VUC	RIDERSERIES, Accessories	4032248614578	10 pc(s).
8869620000	RIM-I 3 24/60VUC GN	RIDERSERIES, Accessories	4032248614561	10 pc(s).
8869610000	RIM-I 3 24/60VUC	RIDERSERIES, Accessories	4032248614554	10 pc(s).

Cross-connector



Cross-connector for bridging connections in the RIDERSERIES RCI

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
8870840000	SRC-I QV P	RIDERSERIES, Cross-connector	4032248631681	10 pc(s).
1132070000	SRC-I QV S	RIDERSERIES, Cross-connector	4032248912087	10 pc(s).

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Accessories

LED / Protective varistor



Pluggable protective modules for the RIDERSERIES RCI / RCM relay base, with optional protective functions.

- With protective varistor
- For UC supply voltage

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
8869710000	RIM-I 4 24VUC VAR	RIDERSERIES, Accessories	4032248606344	10 pc(s).

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, Accessories,	40322486 14455	10 pc(s).
		Continuous current: 16 A ⁽¹⁾ , 8 A, PUSH IN spring connection		
8869490000	SRC-I 2CO	RIDERSERIES, Accessories,	40322486 14448	10 pc(s).
		Continuous current: 16 A ⁽¹⁾ , 8 A, Screw connection		
8869480000	SRC-I 2CO N	RIDERSERIES, Accessories,	40322486 14431	10 pc(s).
		Continuous current: 16 A ⁽¹⁾ , 8 A, Screw connection		

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Accessories
LED / Freilaufdiode


Pluggable protective modules for the RIDERSERIES RCI / RCM relay base, with optional protective functions.

- With either green or red LED
- With free-wheel diode
- For DC supply voltage

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
8869590000	RIM-I 2 6/24VDC	RIDERSERIES, Accessories	4032248614530	10 pc(s).
8869670000	RIM-I 2 24/60VDC	RIDERSERIES, Accessories	4032248614608	10 pc(s).
8869680000	RIM-I 2 24/60VDC GN	RIDERSERIES, Accessories	4032248614615	10 pc(s).
8869600000	RIM-I 2 6/24VDC GN	RIDERSERIES, Accessories	4032248614547	10 pc(s).

Metal retaining clip


Metal retaining clip for RIDERSERIES RCI relays

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1132090000	SRC-I CLIP HM RCI	RIDERSERIES, Accessories	4032248912209	20 pc(s).

Labelling clip


Labelling clip for marking RIDERSERIES RCI relays

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
8869530000	SRC-I MARK	RIDERSERIES, Markers	4032248614479	10 pc(s).

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Accessories

Protection module



Pluggable protective modules for the RIDERSERIES RCI / RCM relay base, with optional protective functions.

- Optionally with free-wheel diode, load resistor or RC filter

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
8869580000	RIM-I 1 6/230V	RIDERSERIES, Accessories	4032248614523	10 pc(s).

Plastic retaining clip



Plastic retaining clip for RIDERSERIES RCI relays

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
8869510000	SRC-I CLIP HP	RIDERSERIES, Accessories	4032248614462	10 pc(s).

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Drawings

Type code	RCI				
Type	RIDER Control Industrial				
Type of construction	3 1-pole, 16 A 4 2-pole, 8 A				
Type of contact	1 1 CO contact without test button 2 2 CO contacts without test button 7 1 CO contact with test button 8 2 CO contacts with test button				
Contact material	4 AgNi 90/10				
Coil	012 12 V DC 024 24 V DC 048 48 V DC 110 110 V DC 524 24 V AC 615 115 V AC 730 230 V AC AB2 12 V DC+LED+diode AC4 24 V DC+LED+diode AE8 48 V DC+LED+diode BB0 110 V DC+LED+diode R24 24 V AC+LED S15 115 V AC+LED T30 230 V AC+LED				