

## RCI42424FG

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Product image



## Relay modules with forcibly guided contacts

Relays with forcibly guided contacts have a 99 % diagnostics coverage and an excellent reputation for use in safety systems. The contacts interlock mechanically with each other in order to ensure a synchronous switching status of 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 welds from an overload). The controller (or safety controller) detects the alert contact and then compares the set values and actual values. If a difference occurs, measures can then be taken to protect equipment and human life.

- 2 CO contacts with 6 A, forcibly guided according to EN 61810-3 type B
- Proven component in safety technology
- Diagnosis coverage of 99 %

## General ordering data

Version	RIDERSERIES FG, Relay with positively driven contacts, Number of contacts: 2, CO contacts forcibly guided (EN 61810-3 type B) AgCuNi, Rated control voltage: 24 V DC, Continuous current: 6 A, Plug-in connection, Test button available: No
Order No.	<a href="#">1218380000</a>
Type	RCI42424FG
GTIN (EAN)	4050118001891
Qty.	12 items

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## Technical data

## Approvals

ROHS	Conform
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## Dimensions and weights

Depth	25.6 mm	Depth (inches)	1.0079 inch
Height	30.2 mm	Height (inches)	1.189 inch
Width	12.7 mm	Width (inches)	0.5 inch
Net weight	17.97 g		

## Temperatures

Storage temperature	-40 °C...85 °C	Ambient temperature	-40 °C...70 °C
Operating temperature		Humidity	40 °C / 95 % rel. humidity, no condensation

## Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

## Control side

Rated control voltage	24 V DC	Rated current DC	29.2 mA
Power rating	700 mW	Coil resistance	720 Ω ± 10 %
Status indicator	No		

## Load side

Rated switching voltage	250 V AC	Continuous current	6 A
Max. switching frequency at rated load	0.1 Hz	Inrush current	15 A / 20 ms
AC switching capacity (resistive), max.	1500 VA	DC switching capacity (resistive), max.	144 W @ 24 V
Switch-on delay	≤ 12 ms	Switch-off delay	≤ 6 ms
Contact type	2 CO contacts forcibily guided (EN 61810-3 type B) (AgCuNi)	Mechanical service life	> 50 x 10 <sup>6</sup> switching cycles
Min. switching power	1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V		

## General data

Test button available	No	Mechanical switch position indicator	No
Colour	Transparent		

## Insulation coordination

Rated voltage	250 V	Pollution severity	2
Surge voltage category	III	Clearance and creepage distances for control side - load side	≥ 10 mm
Dielectric strength for control side - load side	5 kVeff / 1min	Dielectric strength of neighbouring contacts	4 kVeff / 1 min
Dielectric strength of open contact	1.5 kVeff / 1 min.	Protection degree	IP20

## Further details of approvals / standards

Standards	DIN EN 50205
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**Technical data****Connection data**

Wire connection method	Plug-in connection
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**Classifications**

ETIM 8.0	EC001437	ETIM 9.0	EC001437
ETIM 10.0	EC001437	ECLASS 14.0	27-37-16-01
ECLASS 15.0	27-37-16-01		

Drawings

Wiring diagram



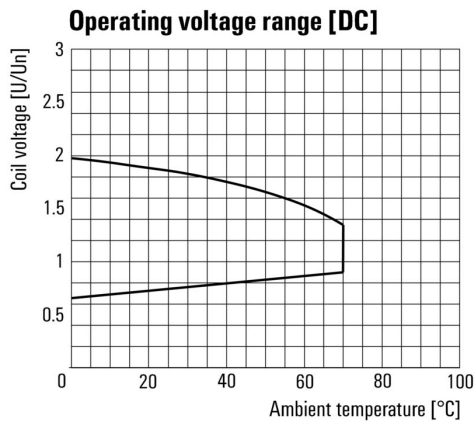
View of Pins from below

Graph



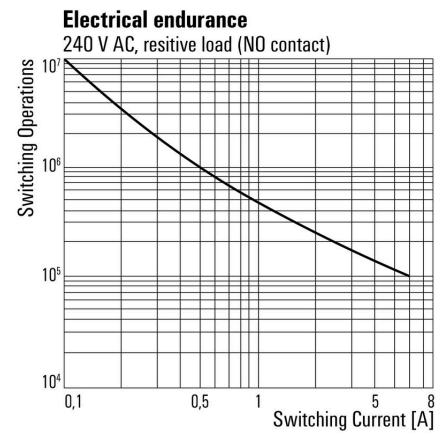
DC load limit curve

Graph



DC operational voltage range

Graph



Dimensional drawing

