

RCI42424FG

Weidmüller Interface GmbH & 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 CO contacts forcibly guided (EN 61810-3 type B) AgCuNi, Rated control voltage: 24 V DC, Continuous current: 6 A
Order No.	1218380000
Type	RCI42424FG
GTIN (EAN)	4050118001891
Qty.	12 pc(s).

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Technical data

Dimensions and weights

Depth	25.6 mm	Depth (inches)	1.008 inch
Height	30.2 mm	Height (inches)	1.189 inch
Net weight	20.5 g	Width	12.7 mm
Width (inches)	0.5 inch		

Temperatures

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

Control side

Coil resistance	720 $\Omega \pm 10\%$	Power rating	700 mW
Pull-in/drop-out voltage, typ.	18 V / 2.4 V DC	Rated control voltage	24 V DC
Rated current DC	29.2 mA		

Load side

AC switching capacity (resistive), max.	1500 VA	Continuous current	6 A
DC switching capacity (resistive), max.	144 W @ 24 V	Inrush current	15 A / 20 ms
Max. switching frequency at rated load	0.1 Hz	Min. switching power	1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V
Rated switching voltage	250 V AC	Switch-off delay	≤ 6 ms
Switch-on delay	≤ 12 ms		

Contact data

Contact type	CO contacts forcibly guided (EN 61810-3 type B) (AgCuNi)	Mechanical service life	$> 50 \times 10^6$ switching cycles
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General data

Test button	No	Mechanical switch position indicator	No
Colour	Transparent		

Insulation coordination

Creepage and clearance distance input – output	≥ 10 mm	Dielectric strength of neighbouring contacts	4 kV _{eff} / 1 min
Dielectric strength of open contact	1.5 kV _{eff} / 1 min.	Dielectric strength, Input/Output	5 kV _{eff} / 1 min
Pollution severity	2	Protection degree	IP20
Rated voltage	250	Surge voltage category	III

Further details of approvals / standards

Standards	DIN EN 50205
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Classifications

ETIM 6.0	EC001437	ETIM 7.0	EC001437
ECLASS 9.0	27-37-16-01	ECLASS 9.1	27-37-16-01
ECLASS 10.0	27-37-16-01	ECLASS 11.0	27-37-16-01

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Technical data

Approvals

Approvals



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Engineering Data

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Engineering Data

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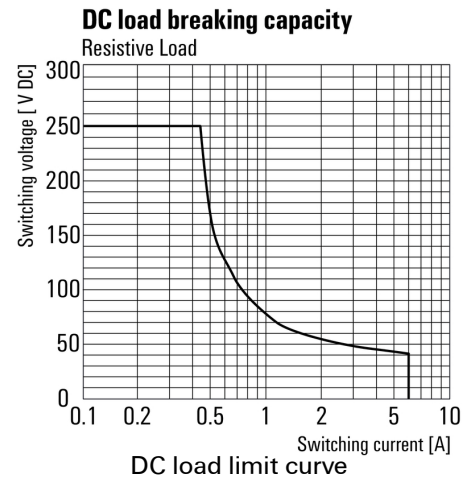
Drawings

Wiring diagram

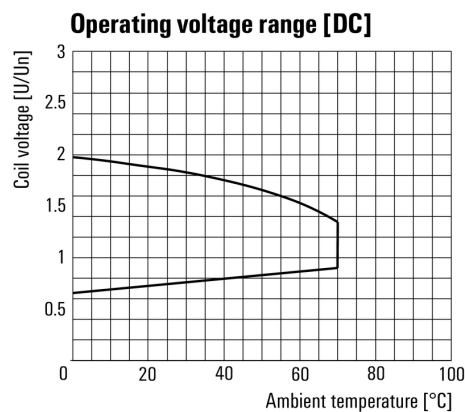


View of Pins from below

Graph



Graph



Dimensional drawing

