

## RCH424024FG

**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com



Proven switching condition monitoring of signals  
In safety-related applications, relays with positively-driven contacts have proven themselves many times over. The positively-driven operation ensures a synchronous switching status at both contacts, so that the signal contact maintains the same switching status in the event of an error. Thus, diagnostic coverage of 99% is achieved. Our TERMSERIES relay modules are predestined for secure signal monitoring in a wide range of applications. Their switching function is clearly indicated by an illuminated ejection lever, which also has an integrated marker holder. Compatibility with all accessories from the TERMSERIES allows high flexibility and easy integration into existing systems. TERMSERIES relay modules have the cULus certification required for use in the North American market.

- 2 CO contacts with 6 A, forcibly guided according to EN 61810-3 type B
- Positive guidance ensures a synchronous switching status at both contacts and achieves a diagnostic coverage of 99%
- UL approval for the North American market
- Ejection lever with integrated marker channels

### General ordering data

|            |  |
|------------|--|
| Version    | TERMSERIES, Relay with positively driven contacts, Number of contacts: 2, CO contacts forcibly guided (EN 61810-3 type B) AgNi, Rated control voltage: 24 V DC, Continuous current: 6 A, Test button available: No |
| Order No.  | <a href="#">2723360000</a>   |
| Type       | RCH424024FG  |
| GTIN (EAN) | 4050118786071  |
| Qty.       | 20 pc(s).  |

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## Technical data

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1.004 inch

1.142 inch

0.496 inch

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 25.5 mm | Depth (inches)  | 1.004 inch |
| Height     | 29 mm   | Height (inches) | 1.142 inch |
| Width      | 12.6 mm | Width (inches)  | 0.496 inch |
| Net weight | 19.5 g  |                 |            |

## Temperatures

|                     |                           |                       |                |
|---------------------|---------------------------|-----------------------|----------------|
| Storage temperature | -25 °C...70 °C            | Operating temperature | -25 °C...70 °C |
| Humidity            | 5...85 %, no condensation |                       |                |

## Rated data UL

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E224238 |
|-------------------------|---------|

## Control side

|                       |                 |                                |                 |
|-----------------------|-----------------|--------------------------------|-----------------|
| Rated control voltage | 24 V DC         | Rated current DC               | 29.2 mA         |
| Power rating          | 585 mVA, 565 mW | Pull-in/drop-out voltage, typ. | 18 V / 2.4 V DC |
| Coil resistance       | 823 Ω ± 10 %    | Coil tolerance                 | 10 %            |

## Load side

|   |                                       |   |  |
|---|---------------------------------------|---|--|
| Rated switching voltage                 | 250 V AC                              | Continuous current                      | 6 A  |
| Max. switching frequency at rated load  | 0.1 Hz                                | Max. switching voltage, AC              | 250 V  |
| Max. switching voltage, DC              | 250 V                                 | AC switching capacity (resistive), max. | 1500 VA  |
| DC switching capacity (resistive), max. | 144 W @ 24 V                          | Switch-on delay                         | ≤ 30 ms  |
| Switch-off delay                        | < 20 ms                               | Contact type                            | 2 CO contacts forcibly guided (EN 61810-3 type B) (AgNi) |
| Mechanical service life                 | 10 x 10 <sup>6</sup> switching cycles | Min. switching power                    | 10 mA @ 5 V  |

## General data

|                                      |       |                       |             |
|--------------------------------------|-------|-----------------------|-------------|
| Rail                                 | TS 35 | Test button available | No          |
| Mechanical switch position indicator | No    | Colour                | Transparent |

## Insulation coordination

|  |                                |   |                       |
|--|--------------------------------|---|-----------------------|
| Rated voltage                                    | 300 V                          | Pollution severity  | 2                     |
| Surge voltage category                           | III                            | Clearance and creepage distances for control side - load side | ≥ 8 mm                |
| Dielectric strength for control side - load side | 4 kV <sub>eff</sub> / 1 Min.   | Type of isolation at input and output                         | reinforced insulation |
| Dielectric strength of neighbouring contacts     | 3 kV <sub>eff</sub> / 1 Min.   | Type of isolation at neighbouring contacts                    | reinforced insulation |
| Dielectric strength of open contact              | 1.5 kV <sub>eff</sub> / 1 min. | Impulse withstand voltage at neighbouring contacts            | 6 kV (1.2/50 μs)      |
| Protection degree                                | IP20                           |   |                       |

## Further details of approvals / standards

|           |            |                         |         |
|-----------|------------|-------------------------|---------|
| Standards | EN 61810-3 | Certificate No. (cURus) | E224238 |
|-----------|------------|-------------------------|---------|

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### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001437    | ETIM 7.0    | EC001437    |
| ETIM 8.0    | 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 | ECLASS 12.0 | 27-37-16-01 |

### Approvals

Approvals



UL File Number Search

UL Website

Certificate No. (cURus)

E224238

### Downloads

Engineering Data

[CAD data – STEP](#)

Engineering Data

[EPLAN](#)

Catalogues

[Catalogues in PDF-format](#)

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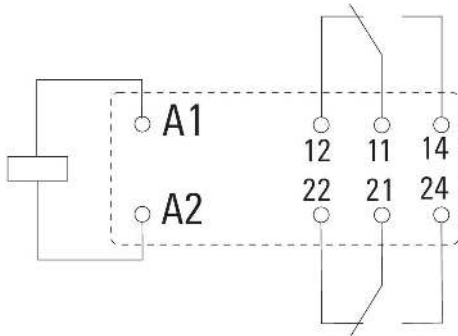
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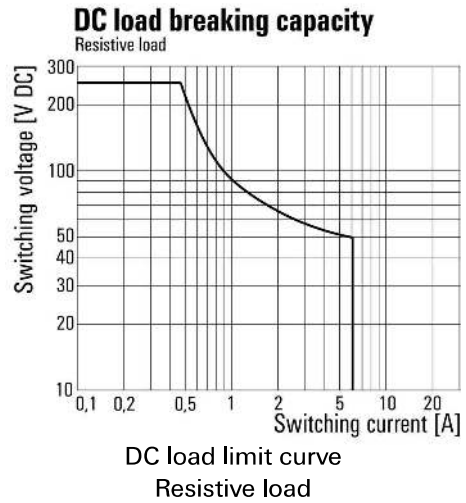
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**Drawings**

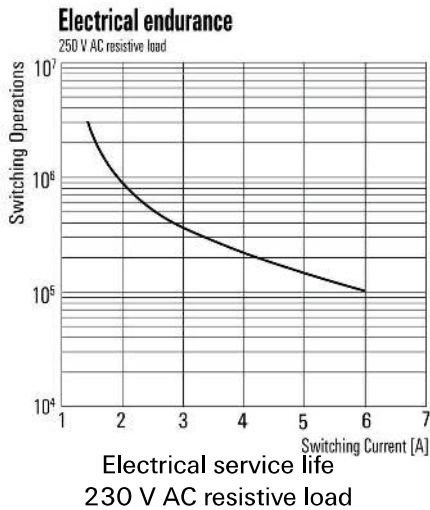
**Wiring diagram**



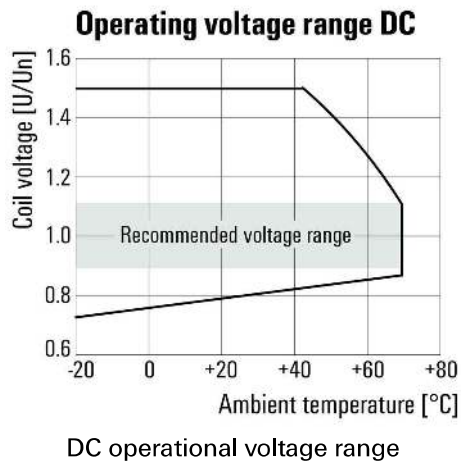
**Graph**



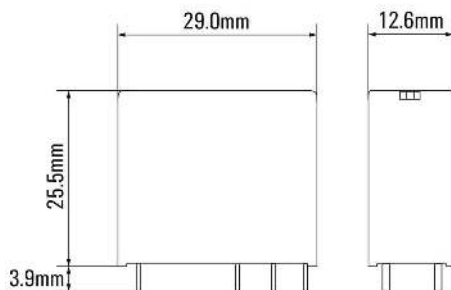
**Graph**



**Graph**



**Dimensional drawing**



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Drawings

Miscellaneous

