

**RCH424024FG****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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: No |
| Order No.  | <a href="#">2723360000</a>                                                                                                                                                                               |
| Type       | RCH424024FG                                                                                                                                                                                              |
| GTIN (EAN) | 4050118786071                                                                                                                                                                                            |
| Qty.       | 20 pc(s).                                                                                                                                                                                                |

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## Technical data

## Dimensions and weights

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

## 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

|                                |                       |                       |                 |
|--------------------------------|-----------------------|-----------------------|-----------------|
| Coil resistance                | 823 $\Omega \pm 10\%$ | Power rating          | 585 mVA, 565 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 | Max. switching frequency at rated load | 0.1 Hz       |
| Max. switching voltage, AC              | 250 V        | Max. switching voltage, DC             | 250 V        |
| Min. switching power                    | 10 mA @ 5 V  | Rated switching voltage                | 250 V AC     |
| Switch-off delay                        | < 20 ms      | Switch-on delay                        | $\leq 30$ ms |

## Contact data

|              |                                                          |                         |                                       |
|--------------|----------------------------------------------------------|-------------------------|---------------------------------------|
| Contact type | 2 CO contacts forcibly guided (EN 61810-3 type B) (AgNi) | Mechanical service life | 10 x 10 <sup>6</sup> switching cycles |
|--------------|----------------------------------------------------------|-------------------------|---------------------------------------|

## General data

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

## Insulation coordination

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

## Further details of approvals / standards

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

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Catalogue status 09.04.2021 / We reserve the right to make technical changes.

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|             |             |             |             |
|-------------|-------------|-------------|-------------|
| 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 |

**Approvals**

Approvals



UL File Number Search E224238

**Downloads**

|                    |                                          |
|--------------------|------------------------------------------|
| Engineering Data   | <a href="#">STEP</a>                     |
| Brochure/Catalogue | <a href="#">Catalogues in PDF-format</a> |

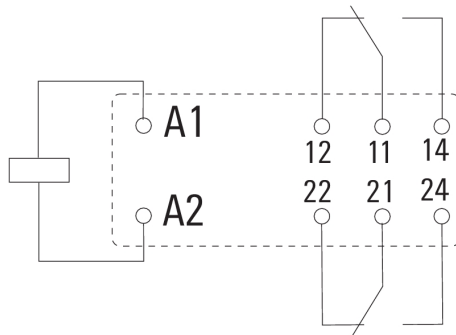
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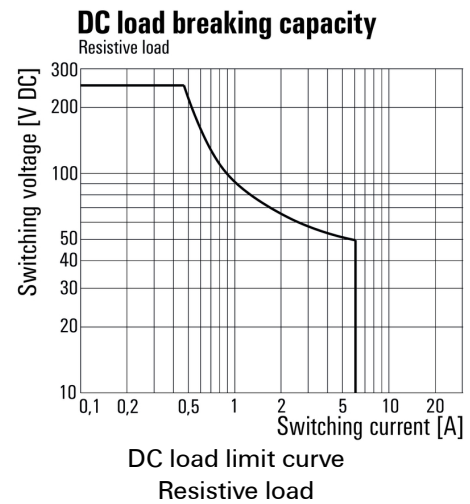
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## Drawings

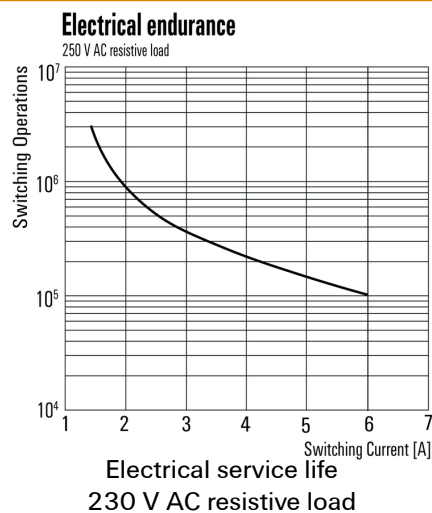
### Wiring diagram



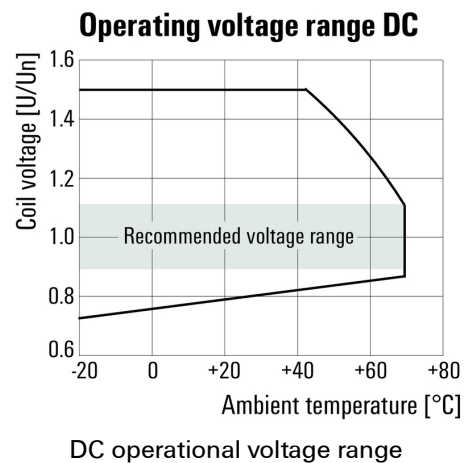
### Graph



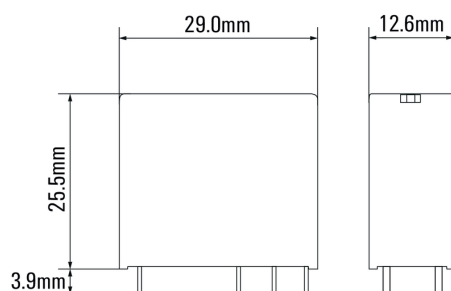
### Graph



### Graph



### Dimensional drawing



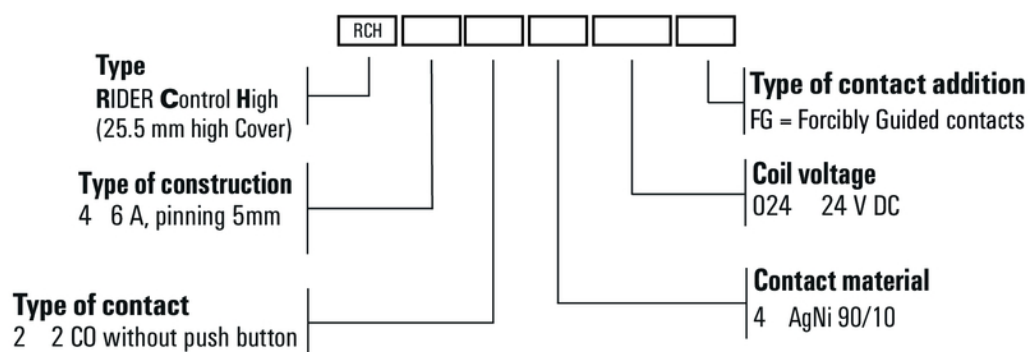
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## Drawings

## Miscellaneous



Type codes