

# REL-MR-G 24/1 - Single relay

2961037

<https://www.phoenixcontact.com/gb/products/2961037>



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Pluggable replacement miniature relay, 1 N/O contact, input voltage 24 V DC



## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2961037             |
| Packing unit                         | 8 pc                |
| Minimum order quantity               | 8 pc                |
| Sales key                            | DK69W1              |
| Product key                          | DK69W1              |
| Catalog page                         | Page 524 (C-5-2019) |
| GTIN                                 | 4017918087074       |
| Weight per piece (including packing) | 6.675 g             |
| Weight per piece (excluding packing) | 4.387 g             |
| Customs tariff number                | 85364190            |
| Country of origin                    | DE                  |

# REL-MR-G 24/1 - Single relay

2961037

<https://www.phoenixcontact.com/gb/products/2961037>



## Technical data

### Product properties

|                         |                                |
|-------------------------|--------------------------------|
| Product type            | Single relay                   |
| Operating mode          | 100% operating factor          |
| Mechanical service life | approx. $2 \times 10^7$ cycles |

### Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 19.03.2025 |
|------------------------------|------------|

### Electrical properties

|   |  |
|---|--|
| Maximum power dissipation for nominal condition | 0.12 W                                   |
| Test voltage (Winding/contact)                  | 2 kV AC (50 Hz, 1 min., winding/contact) |

### Input data

#### Coil side

|                                |                                 |
|--------------------------------|---------------------------------|
| Nominal input voltage $U_N$    | 24 V DC                         |
| Input voltage range            | 19.2 V DC ... 26.4 V DC (20 °C) |
| Drive and function             | monostable                      |
| Drive (polarity)               | non-polarized                   |
| Typical input current at $U_N$ | 5 mA                            |
| Typical response time          | 5 ms                            |
| Typical release time           | 2 ms                            |
| Coil resistance                | 4800 $\Omega \pm 10$ %          |

### Output data

#### Switching

|                                       |                        |
|---------------------------------------|------------------------|
| Contact switching type                | 1 N/O contact          |
| Type of switch contact                | Double contact         |
| Contact material                      | AgNi, hard gold-plated |
| Maximum switching voltage             | 250 V AC               |
|                                       | 125 V DC               |
| Minimum switching voltage             | 5 V DC                 |
| Limiting continuous current           | 3 A                    |
| Maximum inrush current                | 5 A                    |
| Min. switching current                | 1 mA                   |
| Interrupting rating (ohmic load) max. | 72 W (at 24 V DC)      |
|                                       | 60 W (at 48 V DC)      |
|                                       | 50 W (at 60 V DC)      |
|                                       | 50 W (at 110 V DC)     |
|                                       | 750 VA (at 230 V AC)   |

### Dimensions

# REL-MR-G 24/1 - Single relay



2961037

<https://www.phoenixcontact.com/gb/products/2961037>

|        |       |
|--------|-------|
| Width  | 5 mm  |
| Height | 23 mm |
| Depth  | 17 mm |

## Environmental and real-life conditions

### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -40 °C ... 85 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

## Standards and regulations

|                       |  |
|-----------------------|--|
| Standards/regulations | DIN VDE 0110                             |
|                       | IEC 255/DIN VDE 0435 (in relevant parts) |

## Mounting

|                   |     |
|-------------------|-----|
| Mounting position | any |
|-------------------|-----|

# REL-MR-G 24/1 - Single relay

2961037

<https://www.phoenixcontact.com/gb/products/2961037>



## Drawings

### Schematic diagram



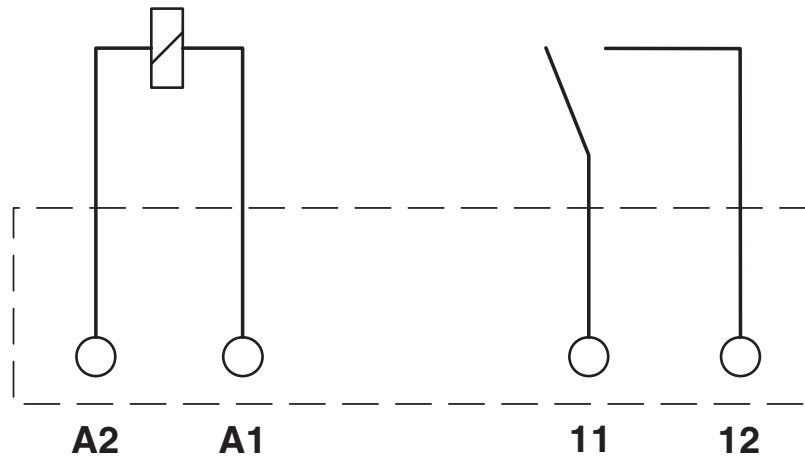
# REL-MR-G 24/1 - Single relay

2961037

<https://www.phoenixcontact.com/gb/products/2961037>



Circuit diagram



# REL-MR-G 24/1 - Single relay

2961037

<https://www.phoenixcontact.com/gb/products/2961037>



## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2961037>



**EAC**

Approval ID: RU\*C-DE.\*08.B.00010

# REL-MR-G 24/1 - Single relay



2961037

<https://www.phoenixcontact.com/gb/products/2961037>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27371601 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001437 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|