

# EMUG 45- 4REL/KSR-G 24/21 - Multiple relay module



2943767

<https://www.phoenixcontact.com/pc/products/2943767>

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Relay module, multi-channel with 4 soldered-in miniature switching relays for DC voltage each with LED display and 1 changeover contact, contact for medium to large loads, 24 V DC input voltage

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2943767                        |
| Packing unit                         | 5 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | CK61E3                         |
| GTIN                                 | 4017918081317                  |
| Weight per piece (including packing) | 132.6 g                        |
| Weight per piece (excluding packing) | 14 g                           |
| Customs tariff number                | 85364190                       |
| Country of origin                    | DE                             |

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## Technical data

### Notes

#### Utilization restriction

|          |                                                                           |
|----------|---------------------------------------------------------------------------|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---------------------------------------------------------------------------|

### Product properties

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

#### Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 02.05.2024 |
|------------------------------|------------|

#### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree     | 2   |

### Electrical properties

|                                                 |                                            |
|-------------------------------------------------|--------------------------------------------|
| Maximum power dissipation for nominal condition | 0.5 W                                      |
| Test voltage (Winding/contact)                  | 2.5 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)               | polarized                                                                    |
| Typical input current at $U_N$ | 21 mA                                                                        |
| Typical response time          | 7 ms                                                                         |
| Typical release time           | 11 ms                                                                        |
| Protective circuit             | Damping diode, polarity protection; Damping diode, polarity protection diode |
| Operating voltage display      | yes                                                                          |

### Output data

#### Switching

|                             |                      |
|-----------------------------|----------------------|
| Contact switching type      | 1 changeover contact |
| Type of switch contact      | Single contact       |
| Contact material            | AgNi                 |
| Maximum switching voltage   | 250 V AC/DC          |
| Limiting continuous current | 6 A                  |
| Maximum inrush current      | 8 A                  |

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|                                       |                        |
|---------------------------------------|------------------------|
| Interrupting rating (ohmic load) max. | 95 W (at 24 V DC)      |
|                                       | 50 W (at 48 V DC)      |
|                                       | 45 W (at 60 V DC)      |
|                                       | 35 W (at 110 V DC)     |
|                                       | 55 W (at 220 V DC)     |
|                                       | 1500 VA (for 250 V AC) |

## Dimensions

|        |       |
|--------|-------|
| Width  | 45 mm |
| Height | 60 mm |
| Depth  | 79 mm |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Ambient temperature (operation) | -20 °C ... 55 °C |
|---------------------------------|------------------|

## Standards and regulations

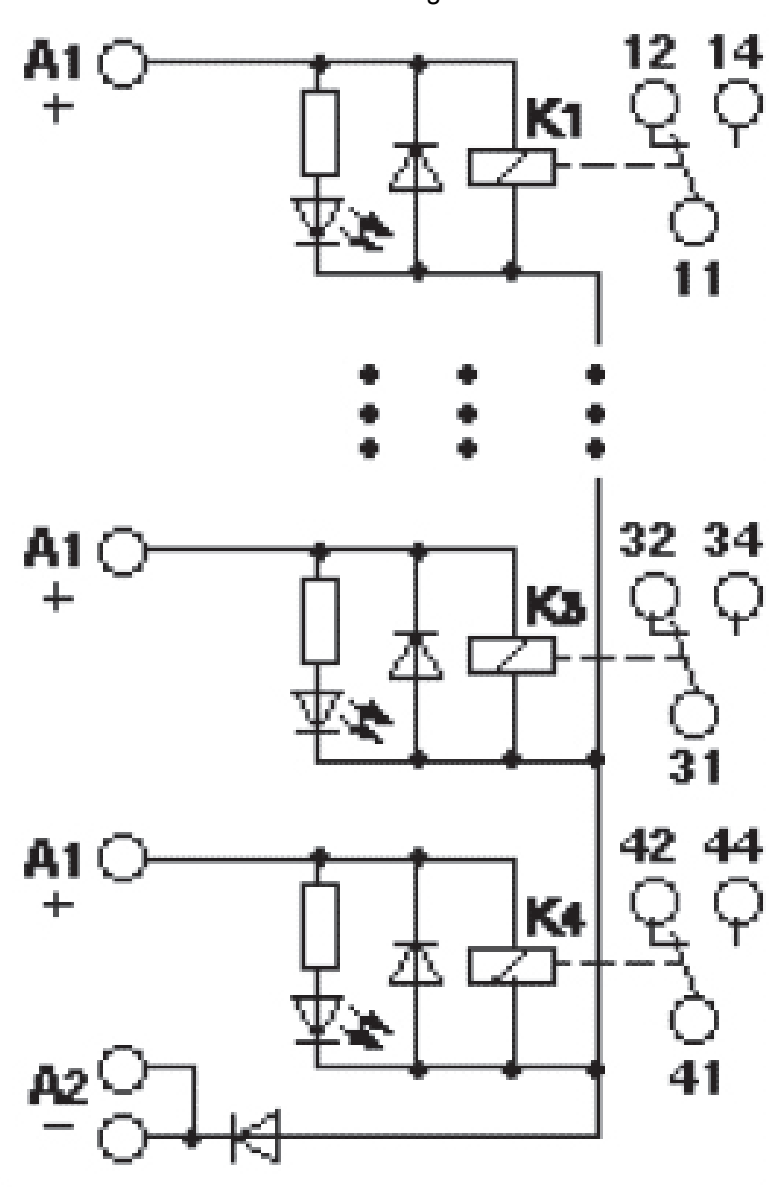
|                       |                                            |
|-----------------------|--------------------------------------------|
| Standards/regulations | IEC 60664                                  |
|                       | IEC 60664A                                 |
|                       | DIN VDE 0110                               |
|                       | DIN VDE 0109-11, draft                     |
|                       | DIN EN 50178/VDE 0160                      |
|                       | IEC 60255/DIN VDE 0435 (in relevant parts) |

## Mounting

|                   |                           |
|-------------------|---------------------------|
| Mounting type     | DIN rail mounting         |
| Assembly note     | in rows with zero spacing |
| Mounting position | any                       |

## Drawings

Circuit diagram



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2943767>



**EAC**

Approval ID: TR\_TS\_D\_00573\_c



**EAC**

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27371601 |
| ECLASS-12.0 | 27371601 |
| ECLASS-13.0 | 27371601 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC001437 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|                                         |      |
|-----------------------------------------|------|
| EU RoHS                                 |      |
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 7(a) |

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | fd48d4cb-4437-49ee-a0e6-1598a51867cd |

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