

# UM-16 RM/KSR-G24/21/E/SO217 - Multiple relay module



2975489

<https://www.phoenixcontact.com/us/products/2975489>

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VARIOFACE module, with plug-in bases for 16 miniature switching relays with 1 changeover contact, with LED display

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2975489                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C429                           |
| Product key                          | DK2A9A                         |
| GTIN                                 | 4017918281076                  |
| Weight per piece (including packing) | 856.8 g                        |
| Weight per piece (excluding packing) | 749.67 g                       |
| Customs tariff number                | 85364190                       |
| Country of origin                    | DE                             |

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## Technical data

### Notes

|                    |  |
|--------------------|--|
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |
|--------------------|--|

### Utilization restriction

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

### Product properties

|                         |   |
|-------------------------|---|
| Product type            | Relay Module                                |
| No. of channels         | 16  |
| Mechanical service life | $> 10^7$ cycles                             |
| Compatible components   | Miniature switching relay, REL-MR-24DC/21HC |
| With components         | yes   |

### Insulation characteristics

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

### Input data

|   |  |
|---|--|
| Nominal input voltage $U_N$               | 24 V DC  |
| Input voltage range in reference to $U_N$ | 0.8 ... 1.1  |
| Typical input current at $U_N$            | 25 mA  |
| Typical response time                     | 10 ms  |
| Typical release time                      | 5 ms   |
| Protective circuit                        | Freewheeling diode; Freewheeling diode<br>Reverse polarity protection; Polarity protection diode |
| Status display/channel                    | Yellow LED   |

### Output data

|                       |   |
|-----------------------|---|
| Compatible components | Miniature switching relay, REL-MR-24DC/21HC |
|-----------------------|---|

### Switching

|                                       |  |
|---------------------------------------|--|
| Contact switching type                | Single contact, 1 changeover contact                     |
| Contact material                      | AgCdO  |
| Maximum switching voltage             | 250 V AC (Module-specific)<br>300 V DC (Module-specific) |
| Limiting continuous current           | 5 A (Module-specific)                                    |
| Maximum inrush current                | 8 A  |
| Interrupting rating (ohmic load) max. | 120 W (at 24 V DC)<br>50 W (at 48 V DC)                  |

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|  |                        |
|--|------------------------|
|  | 60 W (at 220 V DC)     |
|  | 1250 VA (for 250 V AC) |
| Error detection (line break / short-circuit) | no                     |

## Connection data

### Input

|                       |   |
|-----------------------|---|
| Connection method     | Flat-ribbon cable connector in acc. with IEC 60603-13 |
| Number of connections | 1   |
| Number of positions   | 20  |

### Output

|                                  |   |
|----------------------------------|---|
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm  |
| Screw thread                     | M3  |
| Number of connections            | 52  |
| Number of positions              | 3   |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross-section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG      | 24 ... 12                                   |

## Signaling

|                        |     |
|------------------------|-----|
| Status display present | yes |
|------------------------|-----|

## Dimensions

|        |          |
|--------|----------|
| Width  | 265.5 mm |
| Height | 111 mm   |
| Depth  | 68 mm    |

## Material specifications

|                             |                                    |
|-----------------------------|------------------------------------|
| Color                       | green (RAL 6021)                   |
| Housing insulation material | PVC, side panel PA non-reinforced, |

## Environmental and real-life conditions

### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -20 °C ... 50 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

## Standards and regulations

|                       |                 |
|-----------------------|-----------------|
| Standards/regulations | DIN VDE 0110    |
|                       | DIN VDE 0109-11 |

## Mounting

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

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## Environmental product compliance

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-50<br>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% |
|-------------------------------------|----------------------------|

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