

## Active module - UMK-32 RM/MR-G24/1/PLC - 2979472

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VARIOFACE output module, with 32 miniature relays, 1 N/O contact each, plugged, for 24 V DC (incl. relay)

### Your advantages

- ✓ Narrow design width of just 55 mm (8 channels) or 202 mm (32 channels)
- ✓ Universal applications from 1 mA to 3 A continuous current thanks to 2-layer double contact with hard gold plating
- ✓ LED status indicator per signal path and supply voltage
- ✓ Freewheeling and polarity protection diode for each signal path
- ✓ Plug-in miniature relays each with an N/O contact



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 pc  |
| GTIN         | <br>4 017918 130367 |
| GTIN         | 4017918130367   |

### Technical data

#### Note

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

#### Dimensions

|        |        |
|--------|--------|
| Width  | 202 mm |
| Height | 90 mm  |
| Depth  | 58 mm  |

#### Ambient conditions

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

#### Input data

## Active module - UMK-32 RM/MR-G24/1/PLC - 2979472

### Technical data

#### 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 $U_N$            | 6.5 mA                      |
| Typical response time                     | 5 ms                        |
| Typical release time                      | 15 ms                       |
| Type of protection                        | Free-wheeling diode         |
| Protective circuit/component              | Damping diode               |
| Type of protection                        | Reverse polarity protection |
| Protective circuit/component              | Polarity protection diode   |
| Operating voltage display                 | Green LED                   |
| Status display/channel                    | Yellow LED                  |

#### Output data

|  |  |
|--|--|
| Contact type                                 | 1 N/O contact  |
| Contact material                             | AgNi, 5 $\mu$ m hard gold-plated   |
| Maximum switching voltage                    | 250 V AC<br>125 V DC   |
| Minimum switching voltage                    | 5 V  |
| Limiting continuous current                  | 3 A  |
| Maximum inrush current                       | 5 A  |
| Min. switching current                       | 1 mA   |
| Interrupting rating (ohmic load) max.        | 72 W (24 V DC)<br>60 W (48 V DC)<br>50 W (60 V DC)<br>50 W (110 V DC)<br>750 VA (250 V AC) |
| Error detection (line break / short-circuit) | no   |

#### General

|                         |                                |
|-------------------------|--------------------------------|
| No. of channels         | 32                             |
| Compatible components   | Miniature relay, REL-MR-G 24/1 |
| With components         | yes                            |
| Mechanical service life | $2 \times 10^7$ cycles         |
| Operating mode          | 100% operating factor          |
| Degree of protection    | IP00                           |
| Mounting position       | any                            |
| Assembly instructions   | In rows with zero spacing      |
| Color                   | green                          |

#### Connection data for connection 1

|                   |                   |
|-------------------|-------------------|
| Connection name   | Controller level  |
| Connection method | IDC/FLK pin strip |

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### Connection data for connection 1

|                       |         |
|-----------------------|---------|
| Number of connections | 1       |
| Number of positions   | 50      |
| Pitch                 | 2.54 mm |

### Connection data for connection 2

|                                  |  |
|----------------------------------|--|
| Connection name                  | Field level                                  |
| Connection method                | Screw connection                             |
| Stripping length                 | 6 mm   |
| Screw thread                     | M3   |
| Conductor cross section solid    | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 26 ... 16                                    |
| Number of connections            | 64   |

### Connection data for connection 3

|                                  |  |
|----------------------------------|--|
| Connection name                  | Supply                                       |
| Connection method                | Screw connection                             |
| Stripping length                 | 6 mm   |
| Screw thread                     | M3   |
| Conductor cross section solid    | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 26 ... 14                                    |
| Number of connections            | 4  |
| Number of positions              | 2  |

### Supported controller

|                        |  |
|------------------------|--|
| Corresponding control  | SIEMENS S7-400                             |
| Corresponding I/O card | 6ES7 422-1BL00-0AA0<br>6ES7 422-7BL00-0AB0 |
| Corresponding control  | ALLEN-BRADLEY ControlLogix                 |
| Corresponding I/O card | 1756-OB32                                  |
| Corresponding control  | ALLEN-BRADLEY PLC 5                        |
| Corresponding I/O card | 1771 OBN                                   |
| Corresponding control  | Emerson DeltaV                             |
| Corresponding I/O card | VE4002S1T2B6                               |
| Corresponding control  | GE-FANUC RX3i                              |
| Corresponding I/O card | IC694MDL754                                |
| Corresponding control  | HONEYWELL Experion PKS C200                |
| Corresponding I/O card | TC-ODD 321                                 |
| Corresponding control  | MITSUBISHI MELSEC L                        |
| Corresponding I/O card | LY41PT1P<br>LY42PT1P                       |

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## Technical data

### Supported controller

|                        |  |
|------------------------|--|
| Corresponding control  | MITSUBISHI MELSEC Q                    |
| Corresponding I/O card | QY81P                                  |
|                        | QY82P                                  |
| Corresponding control  | Schneider Electric Modicon TSX QUANTUM |
| Corresponding I/O card | DDO 353                                |
| Corresponding control  | SIEMENS S7-1500                        |
| Corresponding I/O card | 6ES7 522-1BL00-0AB0                    |
|                        | 6ES7 522-1BL01-0AB0                    |
| Corresponding control  | SIEMENS S7-300 / ET 200 M              |
| Corresponding I/O card | 6ES7 322-1BL00-0AA0                    |

### Standards and Regulations

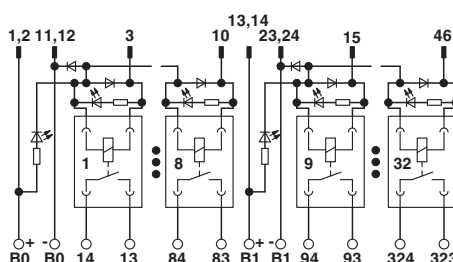
|                                  |                         |
|----------------------------------|-------------------------|
| Connection in acc. with standard | CUL                     |
| Standards/regulations            | DIN EN 50178            |
|                                  | IEC 60664               |
| Rated insulation voltage         | 260 V AC                |
| Rated surge voltage              | 4 kV (basic insulation) |
| Degree of pollution              | 2                       |
| Overvoltage category             | III                     |

### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

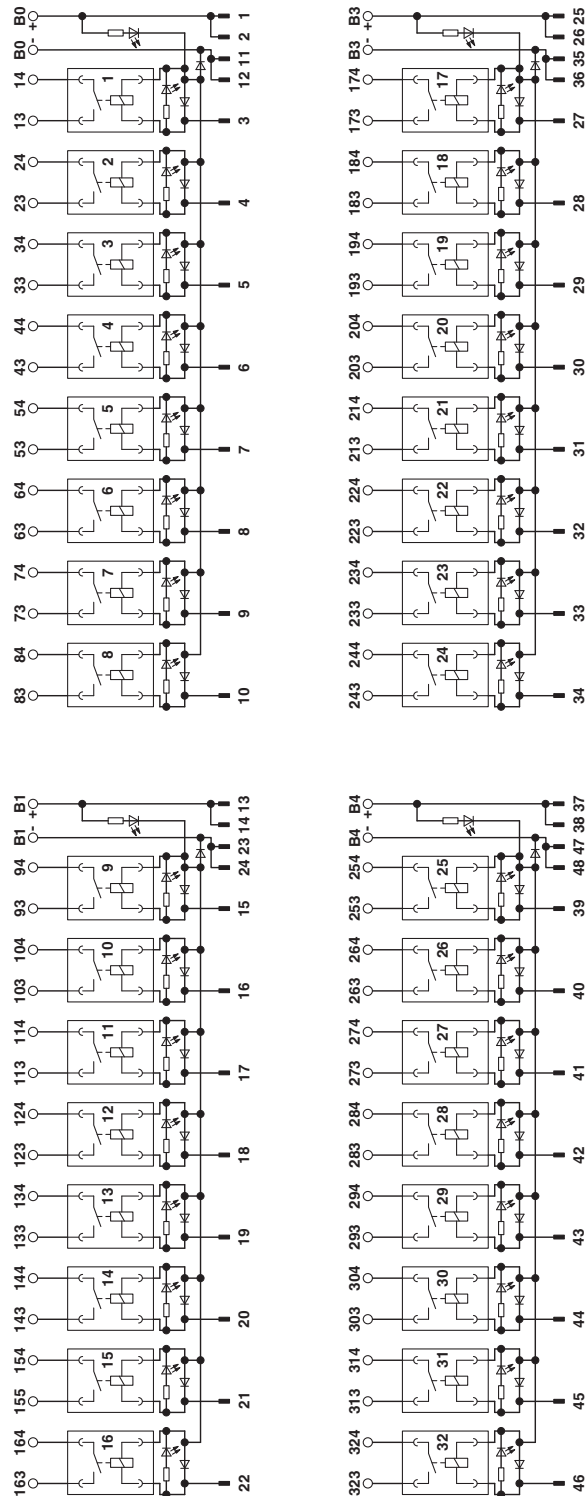
## Drawings

Circuit diagram



# Active module - UMK-32 RM/MR-G24/1/PLC - 2979472

Circuit diagram



# Active module - UMK-32 RM/MR-G24/1/PLC - 2979472

## Approvals

### Approvals

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#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

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#### Ex Approvals

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### Approval details

|                    |  |   |               |
|--------------------|--|---|---------------|
| UL Recognized      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|                    |  |   |               |
| Nominal voltage UN |  | 24 V  |               |
| Nominal current IN |  | 3 A   |               |

|                    |  |   |               |
|--------------------|--|---|---------------|
| cUL Recognized     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|                    |  |   |               |
| Nominal voltage UN |  | 24 V  |               |
| Nominal current IN |  | 3 A   |               |

|     |  |                          |
|-----|--|--------------------------|
| EAC |  | RU C-<br>DE.A*30.B.01742 |
|-----|--|--------------------------|

|                  |  |
|------------------|--|
| cULus Recognized |  |
|------------------|--|

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