

## Active module - UM-32RM/KSR-G24/21/MS/PLC - 2900891

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VARIOFACE output module, with 32 miniature relays, 1 PDT with detectable manual operation each, plugged, for 24 V DC (incl. relay)

### Your advantages

- ✓ Narrow design width of just 92 mm (8 channels) or 285 mm (32 channels)
- ✓ Plug-in miniature relays each with a PDT and detectable manual operation
- ✓ Supply voltage indicator (LED)
- ✓ LED status indicator and freewheeling diode per signal path (integrated in relay)



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 046356 545105 |
| GTIN                                 | 4046356545105                                                                                           |
| Weight per Piece (excluding packing) | 1,148.000 g                                                                                             |
| Custom tariff number                 | 85369010                                                                                                |
| Country of origin                    | Germany                                                                                                 |
| Note                                 | Made to Order (non-returnable)                                                                          |

### Technical data

#### Note

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

#### Dimensions

|        |          |
|--------|----------|
| Width  | 285.5 mm |
| Height | 112 mm   |
| Depth  | 62 mm    |

#### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Ambient temperature (operation) | -20 °C ... 50 °C |
|---------------------------------|------------------|

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## Technical data

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |
| Degree of protection                    | IP00             |

### Input data

|                                           |                                           |
|-------------------------------------------|-------------------------------------------|
| Nominal input voltage $U_N$               | 24 V DC                                   |
| Input voltage range in reference to $U_N$ | 0.9 ... 1.1 (observe derating)            |
| Typical input current at $U_N$            | 18 mA                                     |
| Typical response time                     | 9 ms                                      |
| Typical release time                      | 6 ms                                      |
| Type of protection                        | Free-wheeling diode (integrated in relay) |
| Operating voltage display                 | Green LED                                 |
| Status display/channel                    | Yellow LED (integrated in relay)          |

### Output data

|                                       |                    |
|---------------------------------------|--------------------|
| Contact type                          | 1 PDT              |
| Contact material                      | AgNi               |
| Maximum switching voltage             | 250 V AC/DC        |
| Minimum switching voltage             | 12 V AC/DC         |
| Limiting continuous current           | 5 A                |
| Min. switching current                | 10 mA              |
| Interrupting rating (ohmic load) max. | 120 W (24 V DC)    |
|                                       | 62 W (48 V DC)     |
|                                       | 48 W (60 V DC)     |
|                                       | 55 W (110 V DC)    |
|                                       | 66 W (220 V DC)    |
|                                       | 1250 VA (250 V AC) |

### General

|                         |                           |
|-------------------------|---------------------------|
| No. of channels         | 32                        |
| With components         | yes                       |
| Mechanical service life | 5x 10 <sup>6</sup> cycles |
| Operating mode          | 100% operating factor     |
| Mounting position       | any                       |
| Assembly instructions   | In rows with zero spacing |
| Color                   | green                     |

### Connection data

|                       |                   |
|-----------------------|-------------------|
| Connection name       | Controller level  |
| Connection method     | IDC/FLK pin strip |
| Number of connections | 1                 |
| Number of positions   | 50                |
| Pitch                 | 2.54 mm           |

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### Technical data

#### Connection data 2

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection name                  | Field level                                 |
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm                                        |
| Screw thread                     | M3                                          |
| Conductor cross section solid    | 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                                   |

#### Connection data 3

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection name                  | Supply                                      |
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm                                        |
| Screw thread                     | M3                                          |
| Number of connections            | 4                                           |
| Conductor cross section solid    | 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                                   |

#### Supported controller

|                     |                     |
|---------------------|---------------------|
| Controller          | MITSUBISHI MELSEC Q |
| - suitable I/O card | QY82P               |
| Controller          | MITSUBISHI MELSEC L |
| - suitable I/O card | LY41PT1P            |
|                     | LY42PT1P            |

#### Standards and Regulations

|                          |                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------|
| Designation              | Air and creepage distances, output/output                                                      |
| Standards/regulations    | DIN EN 50178                                                                                   |
|                          | IEC 60664                                                                                      |
| Rated insulation voltage | 260 V AC                                                                                       |
| Rated surge voltage      | 4 kV (Basic insulation between output contact current paths)                                   |
|                          | 6 kV (Safe isolation and reinforced insulation between input circuit and output contact paths) |
| Pollution degree         | 2                                                                                              |
| Overvoltage category     | III                                                                                            |

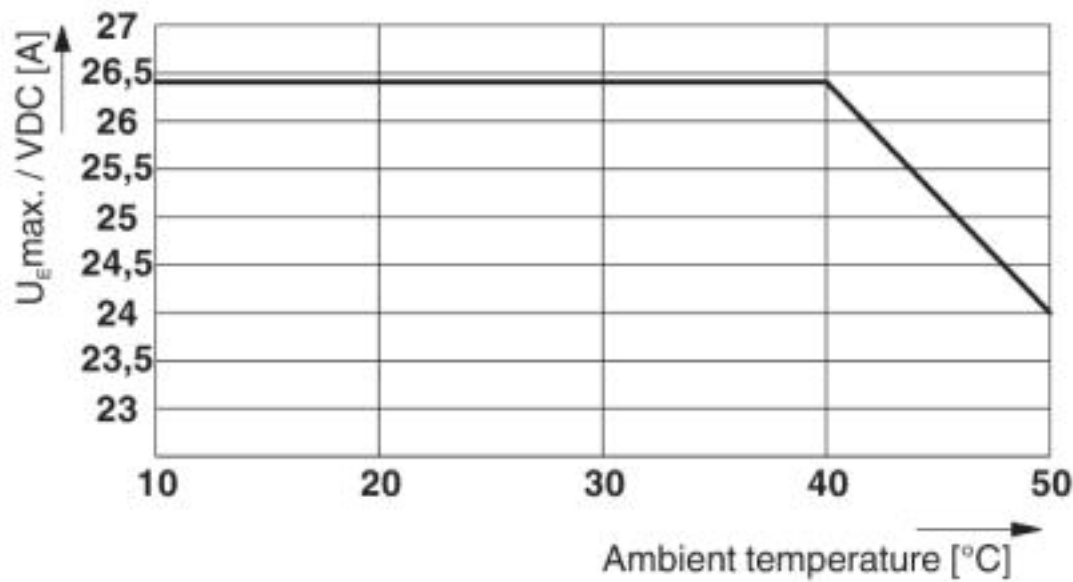
#### Environmental Product Compliance

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

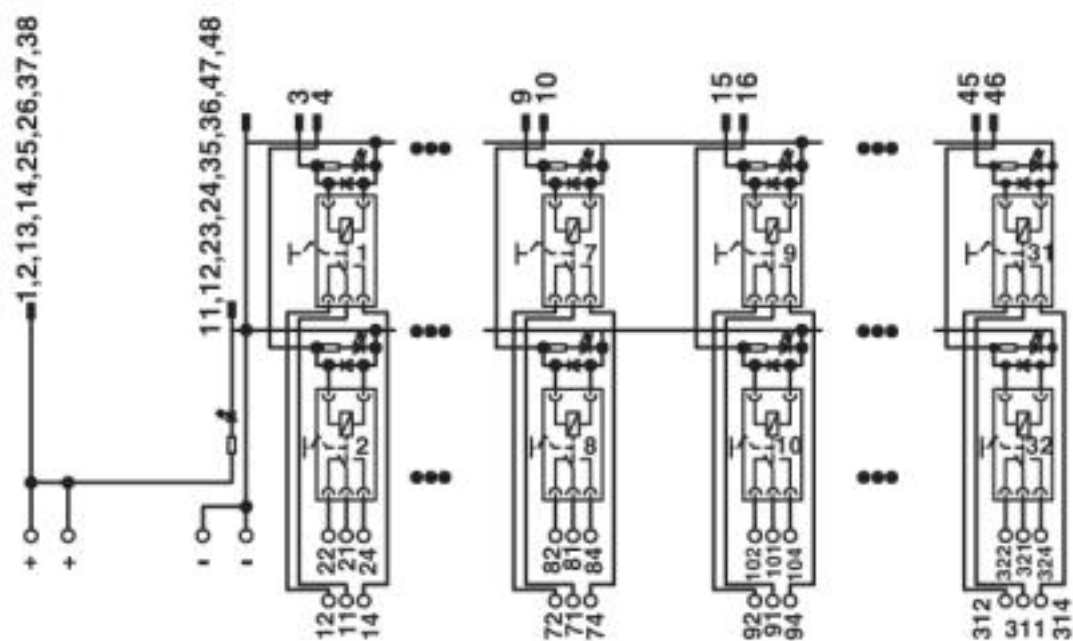
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Diagram



Derating curve for input voltage

Circuit diagram



Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371100 |
| eCl@ss 4.1 | 27371100 |

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27371000 |
| eCl@ss 5.1 | 27371000 |
| eCl@ss 6.0 | 27371000 |
| eCl@ss 7.0 | 27141152 |
| eCl@ss 8.0 | 27141152 |
| eCl@ss 9.0 | 27141152 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC002780 |
| ETIM 6.0 | EC002780 |
| ETIM 7.0 | EC002780 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11     | 39121515 |
| UNSPSC 12.01  | 39121515 |
| UNSPSC 13.2   | 39121432 |
| UNSPSC 18.0   | 39121432 |
| UNSPSC 19.0   | 39121432 |
| UNSPSC 20.0   | 39121432 |
| UNSPSC 21.0   | 39121432 |

### Approvals

#### Approvals

Approvals

EAC

Ex Approvals

#### Approval details

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

### Accessories

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## Active module - UM-32RM/KSR-G24/21/MS/PLC - 2900891

### Accessories

#### Retaining bracket

Retaining bracket - SIM-ERSN-HB-KSR/MET - 2271497

Retainer, for miniature switching relays or miniature optocouplers



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#### Single relay

Single relay - REL-MR- 24DC/21HC/MS - 2987888



Plug-in miniature relay, with power contact, 1 PDT, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2-, input voltage 24 V DC