

# UMKS- F48M-VR - Termination board



2970167

<https://www.phoenixcontact.com/us/products/2970167>

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VARIOFACE module, for IEC 603/DIN 41612 connector, type F, 48-pos., z, b, d components mounted, with male connector, cable housing with latch interlock

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2970167                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C422                           |
| Product key                          | DK2187                         |
| GTIN                                 | 4017918087678                  |
| Weight per piece (including packing) | 277 g                          |
| Weight per piece (excluding packing) | 277 g                          |
| Customs tariff number                | 85369010                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                     |                  |
|---------------------|------------------|
| Product type        | Interface module |
| Product family      | VARIOFACE        |
| Number of positions | 48               |

### Insulation characteristics

|                      |                       |
|----------------------|-----------------------|
| Insulation           | Functional insulation |
| Overvoltage category | II                    |
| Pollution degree     | 2                     |

### Electrical properties

|                           |             |
|---------------------------|-------------|
| Operating voltage (AC/DC) | 250 V AC/DC |
| Current (per branch)      | ≤ 4 A       |
| Rated insulation voltage  | 260 V       |
| Rated surge voltage       | 2.5 kV      |

### Connection data

#### Field level

|                                  |   |
|----------------------------------|---|
| Connection in acc. with standard | IEC / EN                                    |
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm  |
| Screw thread                     | M3  |
| 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                                   |

#### Controller level

|                       |                              |
|-----------------------|------------------------------|
| Connection method     | IEC 603/DIN 41612 connection |
| Number of connections | 1                            |
| Number of positions   | 48                           |

### Signaling

|                        |    |
|------------------------|----|
| Status display present | no |
|------------------------|----|

### Dimensions

#### Item dimensions

|        |          |
|--------|----------|
| Width  | 112.3 mm |
| Height | 77 mm    |
| Depth  | 70.87 mm |

### Material specifications

|       |                  |
|-------|------------------|
| Color | green (RAL 6021) |
|-------|------------------|

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|                             |                             |
|-----------------------------|-----------------------------|
| Housing insulation material | Polyamide PA non-reinforced |
|-----------------------------|-----------------------------|

## Environmental and real-life conditions

### Ambient conditions

|   |                  |
|---|------------------|
| Degree of protection                    | IP00             |
| Ambient temperature (operation)         | -20 °C ... 45 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

## Standards and regulations

|                       |            |
|-----------------------|------------|
| Standards/regulations | EN 60664-1 |
|-----------------------|------------|

## Mounting

|                   |                   |
|-------------------|-------------------|
| Mounting type     | DIN rail mounting |
| Mounting position | any               |

## Notes

|                    |  |
|--------------------|--|
| Notes on operation | Basic insulation is maintained against adjacent modules (in the DIN rail direction).   |
| Notes on operation | Ensure that the supply voltage of the device has a common reference potential.   |
| 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. |

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2970167>



**EAC**

Approval ID: RU\*DE.\*09.B.00387/20

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27141152 |
| ECLASS-15.0 | 27141152 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002780 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |      |
|---|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

### 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                                | df86aad1-6aff-4c82-806a-5b9c82b7ec5e |

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