

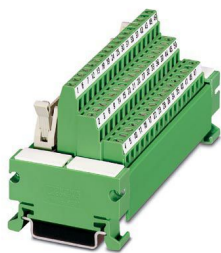
# UM 45-FLKS50 - Termination board

2962696

<https://www.phoenixcontact.com/us/products/2962696>



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VARIOFACE module, with screw connection and flat-ribbon cable connector, for assembly on NS 35/7.5, 50 positions

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2962696       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C422          |
| Product key                          | DK21A1        |
| GTIN                                 | 4017918087364 |
| Weight per piece (including packing) | 144.08 g      |
| Weight per piece (excluding packing) | 117.47 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 | 50               |
| No. of channels     | 16               |

### Insulation characteristics: Air clearances and creepage distances

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

### Electrical properties

|                        |           |
|------------------------|-----------|
| Operating voltage (AC) | ≤ 30 V AC |
| Operating voltage (DC) | ≤ 60 V DC |
| Current (per branch)   | ≤ 1 A     |

### Air clearances and creepage distances

|                          |                    |
|--------------------------|--------------------|
| Rated insulation voltage | 63 V               |
| Rated surge voltage      | 0.6 kV (1.2/50 µs) |

### Supported controller SIEMENS S7-400

|                   |                    |
|-------------------|--------------------|
| Suitable I/O card | 6ES7431-0HH0-0AB0  |
|                   | 6ES7431-1KF00-0AB0 |
|                   | 6ES7431-1KF10-0AB0 |
|                   | 6ES7431-1KF20-0AB0 |
|                   | 6ES7431-7KF00-0AB0 |
|                   | 6ES7431-7KF10-0AB0 |
|                   | 6ES7431-7QH00-0AB0 |
|                   | 6ES7432-1HF00-0AB0 |

### Connection data

#### Connection 1 (control level)

|                                  |                   |
|----------------------------------|-------------------|
| Connection in acc. with standard | IEC 60603-13      |
| Connection method                | IDC/FLK pin strip |
| Number of connections            | 1                 |
| Number of positions              | 50                |
| Insertion/withdrawal cycles      | > 50              |
| Pitch                            | 2.54 mm           |

#### Connection 2 (field level)

|                   |                  |
|-------------------|------------------|
| Connection method | Screw connection |
| Stripping length  | 8 mm             |
| Screw thread      | M3               |

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|                                  |                                                     |
|----------------------------------|-----------------------------------------------------|
| Number of positions              | 51                                                  |
| Conductor cross-section rigid    | 0.14 mm² ... 1.5 mm²                                |
| Conductor cross-section flexible | 0.25 mm² ... 1 mm² (Ferrule without plastic sleeve) |
|                                  | 0.25 mm² ... 1.5 mm² (Ferrule with plastic sleeve)  |
| Conductor cross-section AWG      | 26 ... 16                                           |
| Tightening torque                | 0.5 Nm ... 0.6 Nm                                   |
| Pitch                            | 5.08 mm                                             |

## Signaling

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

## Dimensions

### Item dimensions

|        |          |
|--------|----------|
| Width  | 111 mm   |
| Height | 45 mm    |
| Depth  | 52.26 mm |

## Material specifications

|                             |                  |
|-----------------------------|------------------|
| Color                       | green (RAL 6021) |
| Housing insulation material | PVC              |

## Environmental and real-life conditions

### Ambient conditions

|                                              |                  |
|----------------------------------------------|------------------|
| Degree of protection (Module)                | IP00             |
| Degree of protection (Installation location) | ≥ IP54           |
| Ambient temperature (operation)              | -20 °C ... 50 °C |
| Ambient temperature (storage/transport)      | -20 °C ... 70 °C |
| Altitude                                     | ≤ 2000 m         |

## Standards and regulations

### Air clearances and creepage distances

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

## Mounting

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

## 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. |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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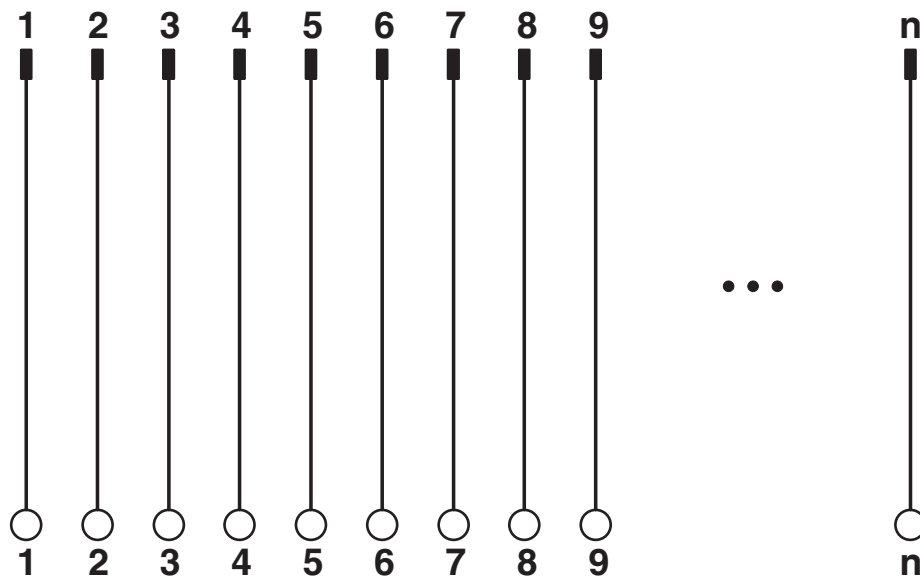
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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2962696>

|                                                                                                                                 |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>cUL Recognized</b><br>Approval ID: E118976 |                       |                       |                   |                             |
|                                                                                                                                 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                           |                       |                       |                   |                             |
| Field wiring                                                                                                                    | 125 V                 | 1 A                   | -                 | -                           |

|                                                                                                                                |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>UL Recognized</b><br>Approval ID: E118976 |                       |                       |                   |                             |
|                                                                                                                                | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                          |                       |                       |                   |                             |
| Field wiring                                                                                                                   | 125 V                 | 1 A                   | -                 | -                           |

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002780 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|                                         |                                                                                                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS                                 |                                                                                                                                                                                                                                   |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                                                                                                                                                                                                                |
| 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.)     | No substance above 0.1 wt%                                                                                                                                                                                                        |

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