

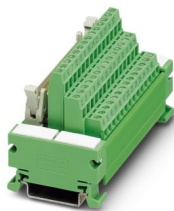
# UM 45-FLKS40 - Termination board

2962683

<https://www.phoenixcontact.com/us/products/2962683>



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VARIOFACE module, with screw connection and flat-ribbon cable connector, for assembly on NS 35/7.5, 40 positions

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2962683                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C422                           |
| Product key                          | DK21A1                         |
| GTIN                                 | 4017918087357                  |
| Weight per piece (including packing) | 132.5 g                        |
| Weight per piece (excluding packing) | 96.88 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 | 40               |
| No. of channels     | 32               |

### 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 ALLEN-BRADLEY SLC 500

|                   |            |
|-------------------|------------|
| Suitable I/O card | 1746 OB 32 |
|                   | 1746 OV 32 |
|                   | 1746 IB 32 |
|                   | 1746 IV 32 |

### 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              | 40                |
| Insertion/withdrawal cycles      | > 50              |
| Pitch                            | 2.54 mm           |

#### Connection 2 (field level)

|                                  |                                                     |
|----------------------------------|-----------------------------------------------------|
| Connection method                | Screw connection                                    |
| Stripping length                 | 8 mm                                                |
| Screw thread                     | M3                                                  |
| Number of positions              | 42                                                  |
| 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)  |

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|                             |                   |
|-----------------------------|-------------------|
| 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  | 96 mm    |
| Height | 45 mm    |
| Depth  | 52.37 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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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2962683>

|  <b>cUL Recognized</b><br>Approval ID: E118976 |                                |                                |                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                                                                                                 | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                           |                                |                                |                   |                               |
| Field wiring                                                                                                                    | 125 V                          | 1 A                            | -                 | -                             |

|  <b>UL Recognized</b><br>Approval ID: E118976 |                                |                                |                   |                               |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                                                                                                | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| 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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