

# UM 45-FLKS40/ZFKDS - Termination board

2968438

<https://www.phoenixcontact.com/us/products/2968438>



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VARIOFACE module, with three-level spring-cage connection and flat-ribbon cable connector, for mounting on NS 35/7.5, 40-pos.

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2968438                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C422                           |
| Product key                          | DK21A1                         |
| GTIN                                 | 4017918932787                  |
| Weight per piece (including packing) | 142.8 g                        |
| Weight per piece (excluding packing) | 114.47 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 | 40               |
| No. of channels     | 2                |
|                     | 4                |
|                     | 6                |
|                     | 8                |
|                     | 16               |
|                     | 32               |

### Insulation characteristics: Air clearances and creepage distances

|                     |                       |
|---------------------|-----------------------|
| Insulation          | Functional insulation |
| Oversupply 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 | Spring-cage connection |
| Stripping length  | 7.5 mm                 |

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|   |   |
|---|---|
| Number of positions   | 42  |
| Conductor cross-section rigid   | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                   |
| Conductor cross-section flexible  | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                   |
|   | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                   |
|   | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule without plastic sleeve) |
| Conductor cross-section flexible (2 conductors with same cross section) | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve)    |
| Conductor cross-section AWG   | 24 ... 14   |
| Pitch   | 5.08 mm   |

## Signaling

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

## Dimensions

|                 |          |
|-----------------|----------|
| Item dimensions |          |
| Width           | 96 mm    |
| Height          | 45 mm    |
| Depth           | 60.66 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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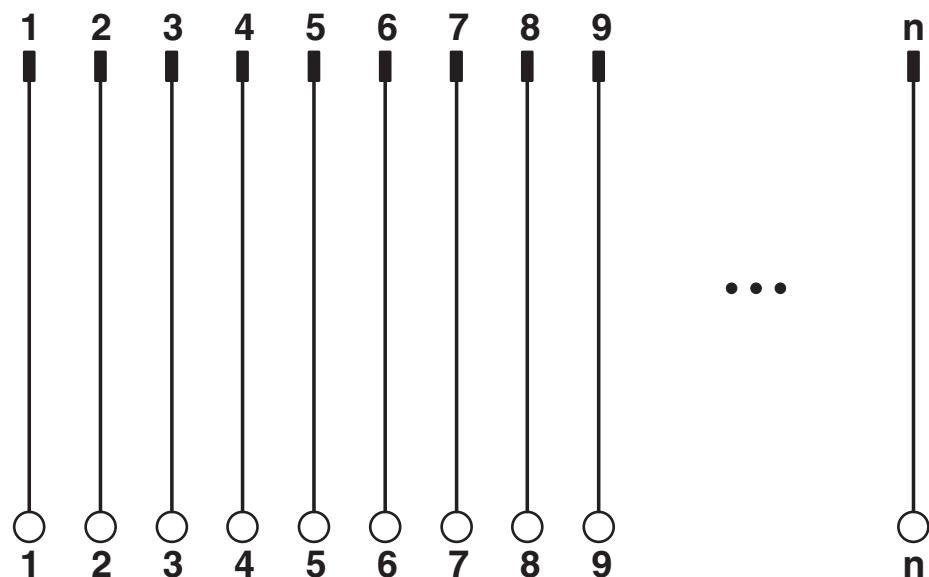
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## Drawings

Circuit diagram



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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2968438>

|              |  | cUL Recognized        |                       |                   |
|--------------|--|-----------------------|-----------------------|-------------------|
|              |  | Approval ID: E118976  |                       |                   |
|              |  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG |
| keine        |  |                       |                       |                   |
| Field wiring |  | 125 V                 | 1 A                   | -                 |

|              |  | UL Recognized         |                       |                   |
|--------------|--|-----------------------|-----------------------|-------------------|
|              |  | Approval ID: E118976  |                       |                   |
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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-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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