

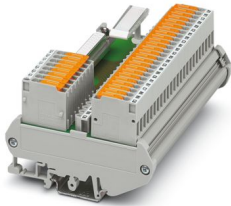
# FLKM-D25 SUB/B/KDS3-MT/TU810 - Termination board



2304513

<https://www.phoenixcontact.com/us/products/2304513>

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VARIOFACE module for ABB S800 I/O, with knife disconnect terminal blocks and specific marking (A1, B1, C1, A2, B2, C2, ... A8, B8, C8)

## Your advantages

- Eight negative terminal blocks with knife disconnection (TU810)
- Eight positive terminal blocks with knife disconnection (TU810/P)
- One positive and negative terminal block with knife disconnection per channel (TU830)

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2304513                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK218L                         |
| GTIN                                 | 4017918949006                  |
| Weight per piece (including packing) | 329.6 g                        |
| Weight per piece (excluding packing) | 329.3 g                        |
| Customs tariff number                | 85369010                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                     |                  |
|---------------------|------------------|
| Product type        | Interface module |
| Number of positions | 25               |
| No. of channels     | 2                |
|                     | 4                |
|                     | 8                |
|                     | 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)                       | ≤ 2 A     |
| Current (L1-, L2-)                         | ≤ 8 A     |
| Current (L1+, L2+)                         | ≤ 4 A     |
| Current (Pin 1, 14, 2, 15, 11, 24, 12, 25) | ≤ 4 A     |

### Air clearances and creepage distances

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

### Supported controller: ABB S800 I/O

|                   |       |
|-------------------|-------|
| Suitable I/O card | DI814 |
|                   | DO810 |
|                   | DO840 |
|                   | DP820 |
|                   | DP840 |
|                   | AI810 |
|                   | AI815 |
|                   | AI820 |
|                   | AI830 |
|                   | AI835 |
|                   | AI845 |
|                   | AO810 |
|                   | AO815 |
|                   | AO820 |
|                   | AO845 |

## Connection data

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## Connection 1 (control level)

|                                  |                    |
|----------------------------------|--------------------|
| Connection in acc. with standard | IEC 60807-2        |
| Connection method                | D-SUB socket strip |
| Screw thread                     | UNC 4-40           |
| Number of connections            | 1                  |
| Number of positions              | 25                 |
| Insertion/withdrawal cycles      | > 500              |
| Pitch                            | 2.77 mm            |

## Connection 2 (field level)

|   |  |
|---|--|
| Connection method   | Screw connection with disconnect knife   |
| Stripping length  | 8 mm   |
| Screw thread  | M3   |
| Number of positions   | 32   |
| Conductor cross-section rigid   | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                      |
| Conductor cross-section rigid (2 conductors with same cross section)    | 0.2 mm <sup>2</sup> ... 1 mm <sup>2</sup>                                      |
| Conductor cross-section flexible  | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                      |
|   | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Ferrule without plastic sleeve)  |
|   | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve)     |
| Conductor cross-section flexible (2 conductors with same cross section) | 0.2 mm <sup>2</sup> ... 1 mm <sup>2</sup>                                      |
|   | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Ferrule without plastic sleeve) |
|   | 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)   |
| Conductor cross-section AWG   | 24 ... 12  |
| Tightening torque   | 0.5 Nm ... 0.6 Nm  |
| Pitch   | 5.08 mm  |

## Connection 3 (field level)

|                     |             |
|---------------------|-------------|
| Connection method   | Test socket |
| Number of positions | 24          |

## Signaling

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

## Dimensions

### Item dimensions

|        |         |
|--------|---------|
| Width  | 126 mm  |
| Height | 89.6 mm |
| Depth  | 59 mm   |

## Material specifications

|                             |                 |
|-----------------------------|-----------------|
| Color                       | gray (RAL 7042) |
| Housing insulation material | PVC             |

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## 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         |

## Approvals

### UKCA

|             |                |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

## 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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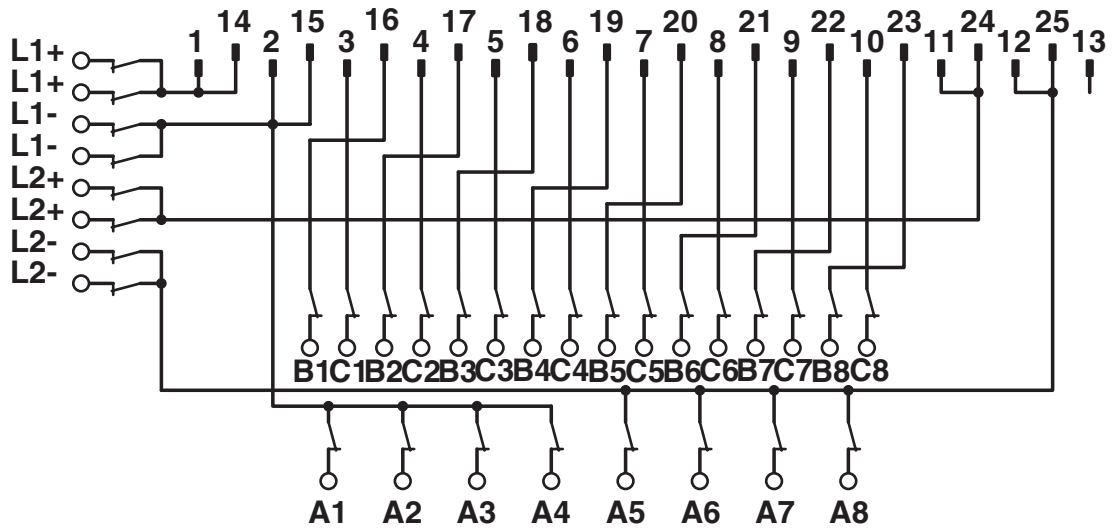


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## Drawings

Circuit diagram



FLKM-D25 SUB/B/KDS3-MT/TU810 connection scheme

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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                                | 2e371cee-7e07-44ac-bf5e-5a26882b80d2 |

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