# FLKM-D25 SUB/B/KDS3-MT/TU830 - Termination board

2304526

https://www.phoenixcontact.com/us/products/2304526

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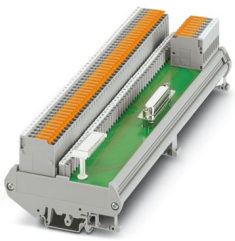

VARIOFACE module for ABB S800 I/O, with knife disconnect terminal blocks and specific marking (A1, B1, C1, A2, B2, C2, ... A16, B16, C16)

## 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 | 2304526 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C421 |
| Product key | DK218L |
| GTIN | 4017918948993 |
| Weight per piece (including packing) | 600.8 g |
| Weight per piece (excluding packing) | 492.82 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |

## 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+) | ≤ 8 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 | DI810 |
| | DI811 |
| | DI814 |
| | DI818 |
| | DI830 |
| | DI831 |
| | DI840 |
| | DI885 |
| | DO810 |
| | DO814 |
| | DO818 |
| | DO840 |
| | DP820 |
| | DP840 |
| | AI810 |
| | AI815 |
| | AI820 |

| | |
|---|---|
| | AI830 |
| | AI835 |
| | AI845 |
| | AO810 |
| | AO815 |
| | AO820 |
| | AO845 |

## Connection data

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 | 56 |
| Conductor cross-section rigid | 0.2 mm² ... 4 mm² |
| Conductor cross-section rigid (2 conductors with same cross section) | 0.2 mm² ... 1 mm² |
| Conductor cross-section flexible | 0.2 mm² ... 4 mm² |
| | 0.25 mm² ... 2.5 mm² (Ferrule without plastic sleeve) |
| | 0.25 mm² ... 1.5 mm² (Ferrule with plastic sleeve) |
| Conductor cross-section flexible (2 conductors with same cross section) | 0.2 mm² ... 1 mm² |
| | 0.25 mm² ... 0.75 mm² (Ferrule without plastic sleeve) |
| | 0.5 mm² ... 1 mm² (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 | 48 |

## Signaling

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

## Dimensions

Item dimensions

| | |
|---|---|
| Width | 247 mm |
| Height | 89.6 mm |
| Depth | 60.01 mm |

## Material specifications

| | |
|---|---|
| Color | gray (RAL 7042) |
| 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 |

## 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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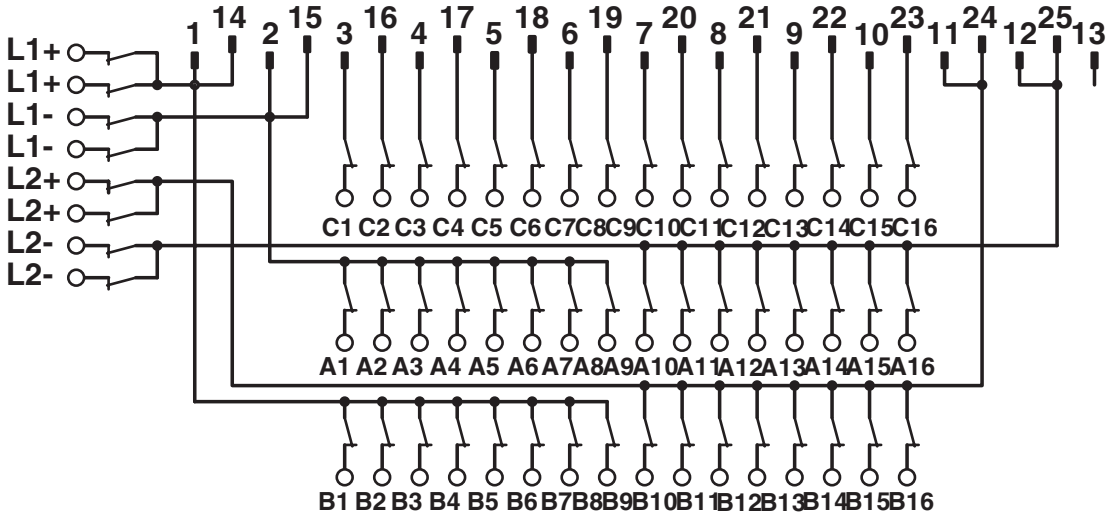
## Drawings

Circuit diagram




FLKM-D25 SUB/B/KDS3-MT/TU830 connection scheme

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

## 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 | a8015ab0-e753-4f00-bfff-6d424343ea15 |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