

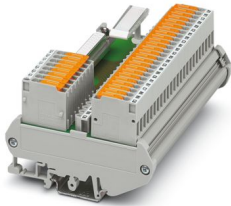
# FLKM-D25 SUB/B/KDS3-MT/TU810 - Termination board



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
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## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	EN IEC 60664-1
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## 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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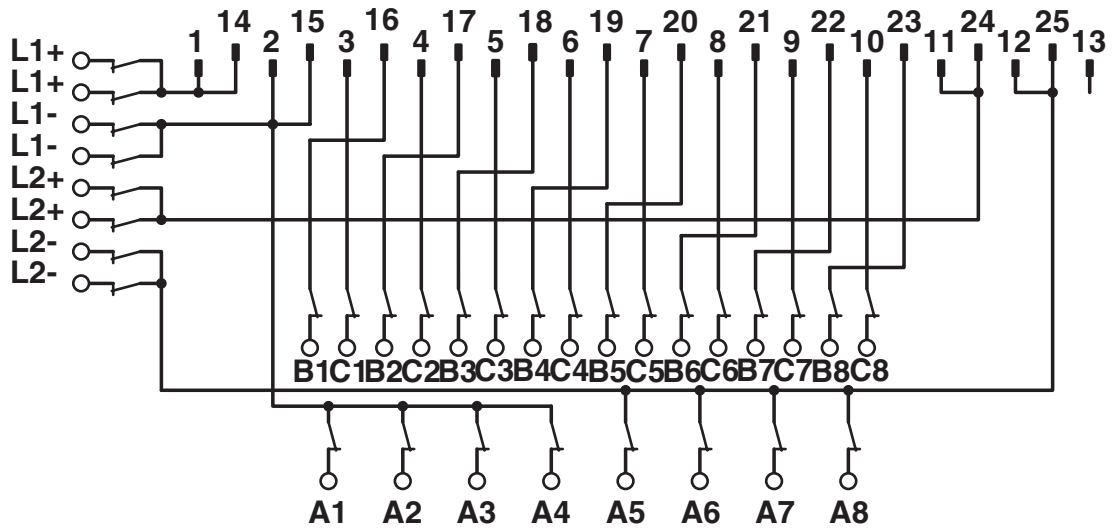


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## Drawings

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
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### 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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