

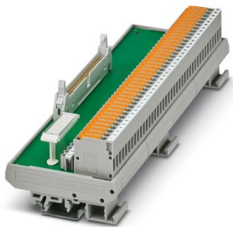
FLKM 50/KDS3-MT/PPA/S7-300 - Passive module



2304490

<https://www.phoenixcontact.com/us/products/2304490>

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VARIOFACE termination board for Siemens SIMATIC® S7-300, with SIMATIC®-specific marking (1-40), knife-disconnect terminal block, and test pick-off, module width: 214 mm

Your advantages

- Numerical labeling (1 - 40)
- Specifically for S7-300 (in conjunction with the FLKM 50-PA-S300 front adapter, Item No. 2294445)

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2304490 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C421 |
| Product key | DK218S |
| GTIN | 4017918977795 |
| Weight per piece (including packing) | 487.5 g |
| Weight per piece (excluding packing) | 375.76 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 | 50 |
| No. of channels | 2 |
| | 4 |
| | 6 |
| | 8 |
| | 16 |
| | 24 |
| | 32 |

Insulation characteristics: Air clearances and creepage distances

| | |
|----------------------|-----------------------|
| Insulation | Functional insulation |
| Overvoltage category | II |
| Pollution degree | 2 |

Electrical properties

| | |
|------------------------|-----------|
| 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: SIEMENS S7-300 / ET 200 M

| | |
|-------------------|--------------------|
| Suitable I/O card | CPU 313C-2DP |
| | CPU 314C-2PtP |
| | 6ES7321-1BL00-0AA0 |
| | 6ES7322-1BL00-0AA0 |
| | 6ES7323-1BL00-0AA0 |
| | 6ES7331-7NF00-0AB0 |
| | 6ES7331-7PF01-0AB0 |
| | 6ES7331-7PF11-0AB0 |
| | 6ES7350-2AH01-0AE0 |
| | 6ES7357-4AH01-0AE0 |
| | CPU 314C-2DP |
| | 6ES7332-5HF00-0AB0 |
| | 6ES7331-7NF10-0AB0 |
| | 6ES7331-1KF01-0AB0 |
| | CPU 313C |
| | CPU 313C-2PtP |

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Supported controller: ALLEN-BRADLEY PLC 5

| | |
|-------------------|----------|
| Suitable I/O card | 1771 OBN |
|-------------------|----------|

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

Connection 2 (field level)

| | |
|---|--|
| Connection method | Screw connection with disconnect knife |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Number of positions | 40 |
| Conductor cross-section rigid | 0.2 mm ² ... 4 mm ² |
| Conductor cross-section rigid (2 conductors with same cross section) | 0.2 mm ² ... 1 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 4 mm ² |
| | 0.25 mm ² ... 2.5 mm ² (Ferrule without plastic sleeve) |
| | 0.25 mm ² ... 1.5 mm ² (Ferrule with plastic sleeve) |
| Conductor cross-section flexible (2 conductors with same cross section) | 0.2 mm ² ... 1 mm ² |
| | 0.25 mm ² ... 0.75 mm ² (Ferrule without plastic sleeve) |
| | 0.5 mm ² ... 1 mm ² (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 | 40 |

Signaling

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

Dimensions

Item dimensions

| | |
|--------|-----------|
| Width | 213.45 mm |
| Height | 77 mm |
| Depth | 52.3 mm |

Material specifications

FLKM 50/KDS3-MT/PPA/S7-300 - Passive module



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| | |
|-----------------------------|-----------------|
| 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

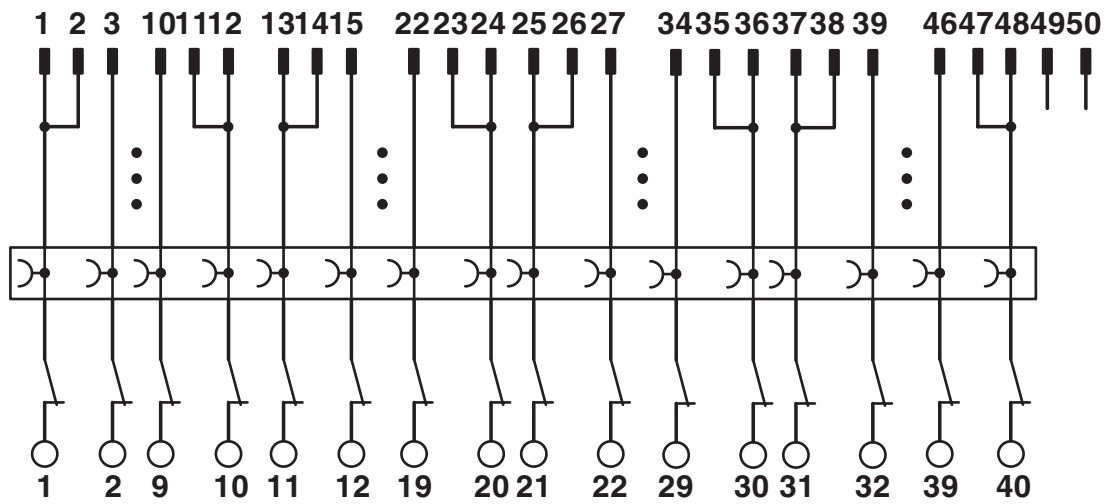
| | |
|--------------------|--|
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |
|--------------------|--|

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Drawings

Circuit diagram



FLKM 50/KDS3-MT/PPA/S7-300 connection scheme

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2304490>

|  UL Listed Approval ID: E238705 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 24 V | 1 A | - | - |

|  cUL Listed Approval ID: E238705 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 24 V | 1 A | - | - |

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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 | 963a8a39-91ab-488c-bd48-0046a21a73fb |

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