

VIP-PA-FLK50/ 2,0M/S7 - Front adapter



2321800

<https://www.phoenixcontact.com/us/products/2321800>

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VIP VARIOFACE front adapter, with connected system cables for SMATIC S7-300, 1 x 32 channels can be connected

Your advantages

- Can be screwed on with the I/O module
- Power supply via terminal blocks with spring-cage double connection
- Encapsulated socket strips on the module side

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2321800 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C423 |
| Product key | DK232S |
| GTIN | 4046356347600 |
| Weight per piece (including packing) | 574.4 g |
| Weight per piece (excluding packing) | 574 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|----------------|------------------------|
| Product type | Front adapter |
| Product family | VARIOFACE Professional |

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) | ≤ 1 A |
| Current (Voltage supply) | ≤ 8 A |
| Current (per byte) | ≤ 2 A |

Air clearances and creepage distances

| | |
|--------------------------|--------|
| Rated insulation voltage | 63 V |
| Rated surge voltage | 0.6 kV |

Supported controller: SIEMENS S7-300 / ET 200 M

| | |
|--------------------|--------------------|
| Suitable I/O card | CPU 312C |
| | CPU 313C |
| | CPU 313C-2PtP |
| | CPU 313C-2DP |
| | CPU 314C-2PtP |
| | CPU 314C-2DP |
| | 6ES7321-1BL00-0AA0 |
| | 6ES7322-1BL00-0AA0 |
| | 6ES7322-8BH01-0AB0 |
| | 6ES7322-8BH10-0AB0 |
| | 6ES7323-1BL00-0AA0 |
| | 6ES7331-1KF01-0AB0 |
| | 6ES7331-7NF00-0AB0 |
| | 6ES7331-7NF10-0AB0 |
| | 6ES7331-7PF01-0AB0 |
| | 6ES7331-7PF11-0AB0 |
| | 6ES7332-5HF00-0AB0 |
| | 6ES7350-2AH01-0AE0 |
| | 6ES7357-4AH01-0AE0 |
| | 6ES7321-7TH00-0AB0 |
| 6ES7331-1KF02-0AB0 | |

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Connection data

Connection 1 (control level)

| | |
|---------------------|---|
| Connection method | Plug-in connection |
| Number of positions | 40 |
| Note | Can be plugged onto 40-pos. I/O modules |

Connection 2 (field level)

| | |
|----------------------------------|----------------------|
| Connection in acc. with standard | IEC 60603-13 |
| Connection method | IDC/FLK socket strip |
| Number of connections | 1 |
| Number of positions | 50 |
| Insertion/withdrawal cycles | < 50 |
| Pitch | 2.54 mm |

Connection 3 (supply)

| | |
|---|---|
| Connection method | Push-in spring connection |
| Stripping length | 10 mm |
| Number of connections | 2 |
| Number of positions | 4 |
| Conductor cross-section rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| | 0.25 mm ² ... 2.5 mm ² (Ferrule without plastic sleeve) |
| | 0.25 mm ² ... 1 mm ² (Ferrule with plastic sleeve) |
| Conductor cross-section flexible (2 conductors with same cross section) | 0.5 mm ² ... 1 mm ² (TWIN ferrule with plastic sleeve) |
| Conductor cross-section AWG | 24 ... 12 |
| Pitch | 5 mm |

Dimensions

Cable

| | |
|--------|-----|
| Length | 2 m |
|--------|-----|

Cable/line

50X0.14 [PVC]

| | |
|---------------------------------|--------------------------|
| UL AWM Style | 2464/1061 |
| Number of positions | 50 |
| Shielded | no |
| Cable type | 50X0.14 [PVC] |
| Conductor type | Round cable set |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross-section | 50x 0.14 mm ² |
| Wire diameter incl. insulation | 1 mm ±0.03 mm |

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| | |
|---|---|
| External cable diameter | 10.30 mm ±0.4 mm |
| Outer sheath, material | Semi-rigid PVC |
| External sheath, color | gray |
| Conductor material | Tin-plated Cu litz wires |
| Cable resistance | ≤ 145 Ω/km (20 °C) |
| Insulation resistance | ≥ 20 MΩ*km (20 °C) |
| Smallest bending radius, fixed installation | 86 mm |
| Smallest bending radius, movable installation | 161 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 5000 (at a radius of ≥ 15x outside diameter) |
| Halogen-free | no |
| Flame resistance | IEC 60332-1-2 (raw cable) |
| | VDE 0842, Part 332-1-2 (raw cable) |
| | IEC 60332-3-22 (raw cable) |
| | UL VW-1 |
| | CSA FT-1 |
| Resistance to oil | can withstand occasional splashes (raw cable) |

Environmental and real-life conditions

Ambient conditions

| | |
|--|------------------|
| Degree of protection (Module) | IP20 |
| 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 | Plug-in 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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| | |
|--------------------|---|
| Notes on operation | To prevent short circuits, all wire bridges on the following I/O cards are to be separated. There may not be any voltage supply at the front adapter. 6ES7 331-1KF01-0AB0 6ES7 331-1KF02-0AB0 6ES7 331-7NF00-0AB0 6ES7 331-7NF10-0AB0 6ES7 331-7PF01-0AB0 6ES7 331-7PF11-0AB0 6ES7 332-5HF00-0AB0 6ES7 350-2AH01-0AE0 6ES7 357-4AH01-0AE0 |
| Notes on operation | <u>Digital I/O cards</u> Thanks to the existing wire bridge upon delivery, the input and output bytes are non-isolated. |

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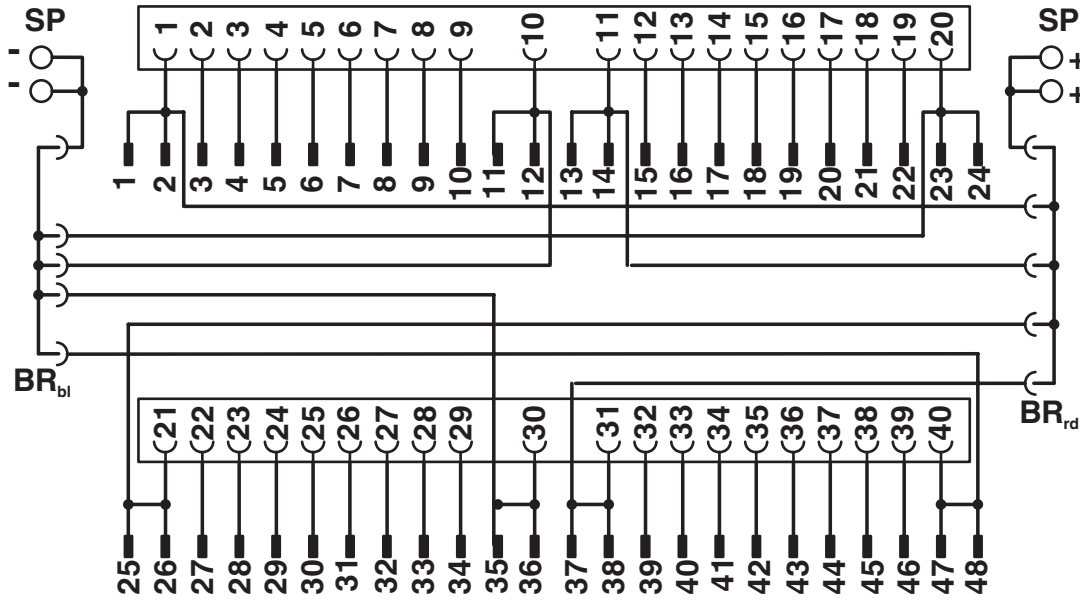


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Drawings

Circuit diagram



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Approvals

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|  cUL Recognized Approval ID: E238705 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 50 V | 1 A | - | - |

|  UL Recognized Approval ID: E238705 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 50 V | 1 A | - | - |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27242292 |
| ECLASS-15.0 | 27242292 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002584 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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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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