

# FLKM 50-PA-S300 - Front adapter

2294445

<https://www.phoenixcontact.com/us/products/2294445>



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VARIOFACE front adapter, for Siemens SIMATIC® S7-300, 1x 32 channels can be connected

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2294445       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C421          |
| Product key                          | DK231S        |
| GTIN                                 | 4017918129767 |
| Weight per piece (including packing) | 57.1 g        |
| Weight per piece (excluding packing) | 30.8 g        |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

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

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             |
| Nominal operating mode                        | 100% operating factor |
| Current (per branch)                          | ≤ 1 A                 |
| Current (Voltage supply via IDC/FLK)          | ≤ 2 A                 |
| Current (Voltage supply via spade connection) | ≤ 8 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 312C           |
|                   | CPU 313C           |
|                   | CPU 313C-2DP       |
|                   | CPU 313C-2PtP      |
|                   | CPU 314C-2DP       |
|                   | CPU 314C-2PtP      |
|                   | 6ES7321-1BL00-0AA0 |
|                   | 6ES7322-8BH01-0AB0 |
|                   | 6ES7322-1BL00-0AA0 |
|                   | 6ES7322-8BH10-0AB0 |
|                   | 6ES7323-1BL00-0AA0 |
|                   | 6ES7331-1KF01-0AB0 |
|                   | 6ES7331-1KF02-0AB0 |
|                   | 6ES7331-7NF00-0AB0 |
|                   | 6ES7331-7NF10-0AB0 |
|                   | 6ES7331-7PF01-0AB0 |
|                   | 6ES7331-7PF11-0AB0 |
|                   | 6ES7332-5HF00-0AB0 |
|                   | 6ES7350-2AH01-0AE0 |
|                   | 6ES7357-4AH01-0AE0 |

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## Connection data

### Connection 1 (control level)

|                     |                    |
|---------------------|--------------------|
| Connection method   | Plug-in connection |
| Number of positions | 40                 |

### Connection 2 (field 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 3 (supply)

|                     |                  |
|---------------------|------------------|
| Connection method   | Spade connection |
| Number of positions | 4                |
| Note                | 2,8 x 0,8        |

## Dimensions

### Item dimensions

|        |           |
|--------|-----------|
| Width  | 115.01 mm |
| Height | 21.3 mm   |
| Depth  | 29.09 mm  |

## 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         |

## 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- |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|

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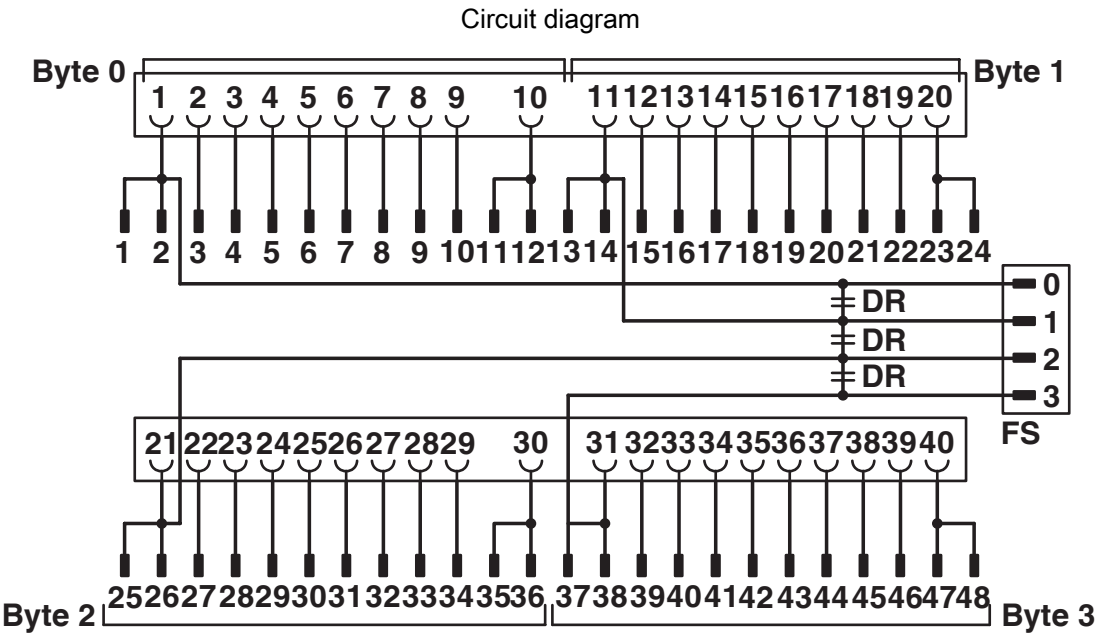
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.                                                                                                                                                                                                                                                                               |
| Notes on operation | <p>To prevent short circuits, all wire bridges on the following I/O cards are to be separated.</p> <p>There may not be any voltage supply at the front adapter.</p> <p>6ES7 331-1KF01-0AB0</p> <p>6ES7 331-1KF02-0AB0</p> <p>6ES7 331-7NF00-0AB0</p> <p>6ES7 331-7NF10-0AB0</p> <p>6ES7 331-7PF01-0AB0</p> <p>6ES7 331-7PF11-0AB0</p> <p>6ES7 332-5HF00-0AB0</p> <p>6ES7 350-2AH01-0AE0</p> <p>6ES7 357-4AH01-0AE0</p> |
| Notes on operation | <p><u>Digital I/O cards</u></p> <p>Thanks to the existing wire bridge upon delivery, the input and output bytes are non-isolated.</p>                                                                                                                                                                                                                                                                                  |

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Drawings



Connection scheme FLKM 50-PA-S300

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2294445>

|                                                                                                                                 |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>cUL Recognized</b><br>Approval ID: E238705 |                       |                       |                   |                             |
|                                                                                                                                 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                 | 125 V                 | 1 A                   | -                 | -                           |

|                                                                                                                                |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>UL Recognized</b><br>Approval ID: E238705 |                       |                       |                   |                             |
|                                                                                                                                | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                | 125 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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