

# VFC-PT/FLK20 - Termination board



1278794

<https://www.phoenixcontact.com/us/products/1278794>

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VARIOFACE Front Connect, 1:1 IDC/FLK termination board with Push-in front connections, number of positions: 20, overall width: 19 mm



## Your advantages

- Fast, clear, and error-free wiring, thanks to Push-in terminal blocks with front connection technology
- Up to 60 % less space required in the control cabinet compared to conventional solutions due to the innovative design with an installation width of 19 mm
- Plug and Play connection to the remote IO and field level with the comprehensive system cabling range from Phoenix Contact
- Optimum support for your distributed I/O devices, thanks to high flexibility and the slim design
- Optically and haptically compatible with modern remote IO systems

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1278794       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C422          |
| Product key                          | DK2171        |
| GTIN                                 | 4063151476229 |
| Weight per piece (including packing) | 74.5 g        |
| Weight per piece (excluding packing) | 74.5 g        |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                 |                         |
|-----------------|-------------------------|
| Product type    | Interface module        |
| Product family  | VARIOFACE Front Connect |
| No. of channels | 16                      |

### Insulation characteristics: Air clearances and creepage distances

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

### Electrical properties

|                                    |                  |
|------------------------------------|------------------|
| Max. permissible operating voltage | 30 V AC          |
|                                    | 60 V DC          |
| Max. permissible current           | 1 A (per branch) |

### Air clearances and creepage distances

|                          |                         |
|--------------------------|-------------------------|
| Rated insulation voltage | 63 V                    |
| Rated surge voltage      | 0.8 kV (1.2/50 $\mu$ s) |

### Connection data

#### Controller level

|                                  |                   |
|----------------------------------|-------------------|
| Connection in acc. with standard | IEC 60603-13      |
|                                  | DIN 41651         |
| Connection method                | IDC/FLK pin strip |
| Number of connections            | 1                 |
| Number of positions              | 20                |

#### Field level

|                                  |   |
|----------------------------------|---|
| Connection method                | Push-in connection  |
| Stripping length                 | 10 mm   |
| Number of positions              | 20  |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                   |
| Conductor cross-section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                   |
|                                  | 0.25 mm <sup>2</sup> ... 1.5 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 AWG      | 24 ... 16   |

### Dimensions

#### Item dimensions

|        |          |
|--------|----------|
| Width  | 18.9 mm  |
| Height | 127.2 mm |
| Depth  | 55 mm    |

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## Material specifications

|  |    |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

## Environmental and real-life conditions

### Ambient conditions

|  |   |
|--|---|
| Degree of protection                         | IP20  |
| Degree of protection (Installation location) | IP54 (Installation location)                                      |
| Ambient temperature (operation)              | -40 °C ... 70 °C (≤ 2000 m)<br>-40 °C ... 63 °C (2001 m - 3000 m) |
| Altitude                                     | ≤ 3000 m  |

## Approvals

### UL, USA/Canada

|                |                |
|----------------|----------------|
| Identification | UL 61010-2-201 |
|----------------|----------------|

### CSA, USA/Canada

|                |                           |
|----------------|---------------------------|
| Identification | CSA C22.2 NO. 61010-2-201 |
|----------------|---------------------------|

## Standards and regulations

### Air clearances and creepage distances

|                       |                |
|-----------------------|----------------|
| Standards/regulations | DIN EN 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. |
|--------------------|--|

# VFC-PT/FLK20 - Termination board

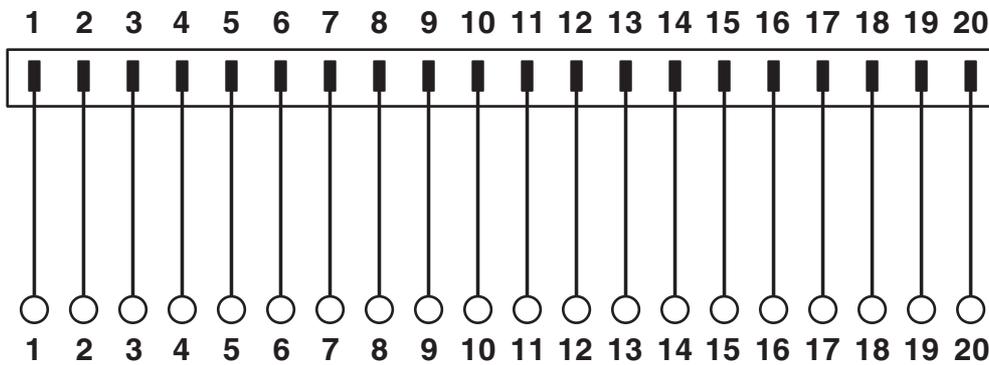
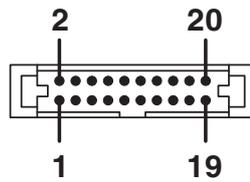


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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1278794>



**UL Listed**

Approval ID: E238705



**cUL Listed**

Approval ID: E238705

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002780 |
|----------|----------|

### UNSPSC

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

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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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