



#### General ordering data

|                  |  |
|------------------|--|
| Order No.        | 1696570000   |
| Part designation | BLZF 5.00/22 SN OR   |
| Version          | PCB plug-in connector, Female connectors,<br>Tension clamp connection, Clamping range, max.:<br>2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 22, 180°,<br>Box |
| EAN              | 4008190878597  |
| Qty.             | 20 pc(s).  |

#### System parameters

|   |                          |
|---|--------------------------|
| Conductor connection system               | Tension clamp connection |
| Outgoing direction of conductor           | 180°                     |
| Pitch                                     | 5 mm                     |
| Pitch in inch                             | 0.197 inch               |
| No. of poles                              | 22                       |
| No. of rows                               | 1                        |
| Screwdriver blade standard                | DIN 5264-A               |
| Stripping length                          | 7 mm                     |
| L1 in mm                                  | 105 mm                   |
| L1 in inch                                | 4.134 inch               |
| Electric shock protection to DIN VDE 0470 | Safe from finger touch   |

#### Material data

|                           |                     |
|---------------------------|---------------------|
| Insulating material       | PBT                 |
| Colour                    | orange              |
| colour chart              | Similar to RAL 2000 |
| Insulating material group | IIIa                |
| Flammability class UL 94  | V-0                 |
| CTI                       | >= 200              |
| Contact base material     | Copper alloy        |
| Contact surface           | tinned              |

#### Connectable conductors

|   |                      |
|---|----------------------|
| Clamping range, min.                              | 0.13 mm <sup>2</sup> |
| Clamping range, max.                              | 2.5 mm <sup>2</sup>  |
| AWG, min.   | 26                   |
| AWG, max.   | 14                   |
| Solid, min. H05(07) V-U                           | 0.5 mm <sup>2</sup>  |
| Solid, max. H05(07) V-U                           | 2.5 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                        | 0.5 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K                        | 2.5 mm <sup>2</sup>  |
| With wire end ferrule, acc. to DIN 46 228/1, min. | 0.5 mm <sup>2</sup>  |
| With wire end ferrule, acc. to DIN 46 228/1, max. | 1.5 mm <sup>2</sup>  |
| w. plastic collar ferrule, DIN 46228 pt 4, min.   | 0.5 mm <sup>2</sup>  |
| w. plastic collar ferrule, DIN 46228 pt 4, max.   | 1.5 mm <sup>2</sup>  |
| Gauge to EN 60999 a x b; ø                        | 2.4 mm x 1.5 mm;     |

#### DIN IEC rating data

|  |                   |
|--|-------------------|
| Rated current, min. No. pins (Tu=20°C)   | 17 A              |
| Rated current, max. No. pins (Tu=20°C)   | 12.5 A            |
| Rated current, min. No. pins (Tu=40°C)   | 14.5 A            |
| Rated current, max. No. pins (Tu=40°C)   | 11 A              |
| Rated voltage for overvoltage class/pollution severity II/2                    | 400 V             |
| Rated voltage for overvoltage class/pollution severity III/2                   | 320 V             |
| Rated voltage for overvoltage class/pollution severity III/3                   | 250 V             |
| Rated impulse withstand voltage for overvoltage class/pollution severity II/2  | 4 kV              |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/2 | 4 kV              |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/3 | 4 kV              |
| Short-time withstand current resistance  | 3 x 1s with 120 A |

#### CSA rating data

|                                    |       |
|------------------------------------|-------|
| Rated voltage (Use group D)        | 300 V |
| Rated current (Use group D)        | 10 A  |
| AWG conductor (field wiring), min. | 26    |
| AWG conductor (field wiring), max. | 14    |

#### UL 1059 rating data

|                             |       |
|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
|-----------------------------|-------|

#### UL 1059 rating data

|                             |      |
|-----------------------------|------|
| Rated current (Use group D) | 10 A |
| AWG conductor, min.         | 26   |
| AWG conductor, max.         | 14   |

#### Approvals

Approvals institutes



#### Classifications

|            |             |
|------------|-------------|
| ETIM 2.0   | NK          |
| ETIM 3.0   | EC001284    |
| eClass 4.1 | 27-26-07-01 |
| eClass 5.0 | 27-26-07-01 |
| eClass 5.1 | 27-26-07-04 |

#### Similar products

| Order No.  | Part designation  | Version  |
|------------|-------------------|--|
| 1696370000 | BLZF 5.00/2 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 2, 180°, Box |
| 1696600000 | BLZF 5.00/2 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 2, 180°, Box |
| 1696380000 | BLZF 5.00/3 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 3, 180°, Box |
| 1696610000 | BLZF 5.00/3 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 3, 180°, Box |
| 1696390000 | BLZF 5.00/4 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 4, 180°, Box |
| 1696620000 | BLZF 5.00/4 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 4, 180°, Box |
| 1696400000 | BLZF 5.00/5 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 5, 180°, Box |
| 1696630000 | BLZF 5.00/5 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 5, 180°, Box |
| 1696410000 | BLZF 5.00/6 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 6, 180°, Box |

|            |                    |   |
|------------|--------------------|---|
| 1696640000 | BLZF 5.00/6 SN SW  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 6, 180°, Box  |
| 1696420000 | BLZF 5.00/7 SN OR  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 7, 180°, Box  |
| 1696650000 | BLZF 5.00/7 SN SW  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 7, 180°, Box  |
| 1696430000 | BLZF 5.00/8 SN OR  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 8, 180°, Box  |
| 1696660000 | BLZF 5.00/8 SN SW  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 8, 180°, Box  |
| 1696440000 | BLZF 5.00/9 SN OR  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 9, 180°, Box  |
| 1696670000 | BLZF 5.00/9 SN SW  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 9, 180°, Box  |
| 1696450000 | BLZF 5.00/10 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 10, 180°, Box |
| 1696680000 | BLZF 5.00/10 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 10, 180°, Box |
| 1696460000 | BLZF 5.00/11 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 11, 180°, Box |
| 1696690000 | BLZF 5.00/11 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 11, 180°, Box |
| 1696470000 | BLZF 5.00/12 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 12, 180°, Box |
| 1696700000 | BLZF 5.00/12 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 12, 180°, Box |
| 1696480000 | BLZF 5.00/13 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 13, 180°, Box |
| 1696710000 | BLZF 5.00/13 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 13, 180°, Box |
| 1696490000 | BLZF 5.00/14 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 14, 180°, Box |
| 1696720000 | BLZF 5.00/14 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 14, 180°, Box |

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|------------|--------------------|---|
| 1696500000 | BLZF 5.00/15 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 15, 180°, Box |
| 1696730000 | BLZF 5.00/15 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 15, 180°, Box |
| 1696510000 | BLZF 5.00/16 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 16, 180°, Box |
| 1696740000 | BLZF 5.00/16 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 16, 180°, Box |
| 1696520000 | BLZF 5.00/17 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 17, 180°, Box |
| 1696750000 | BLZF 5.00/17 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 17, 180°, Box |
| 1696530000 | BLZF 5.00/18 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 18, 180°, Box |
| 1696760000 | BLZF 5.00/18 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 18, 180°, Box |
| 1696540000 | BLZF 5.00/19 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 19, 180°, Box |
| 1696770000 | BLZF 5.00/19 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 19, 180°, Box |
| 1696550000 | BLZF 5.00/20 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 20, 180°, Box |
| 1696780000 | BLZF 5.00/20 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 20, 180°, Box |
| 1696560000 | BLZF 5.00/21 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 21, 180°, Box |
| 1696790000 | BLZF 5.00/21 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 21, 180°, Box |
| 1696800000 | BLZF 5.00/22 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 22, 180°, Box |
| 1696580000 | BLZF 5.00/23 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 23, 180°, Box |
| 1696810000 | BLZF 5.00/23 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 23, 180°, Box |

|            |                    |   |
|------------|--------------------|---|
| 1696590000 | BLZF 5.00/24 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 24, 180°, Box |
| 1696820000 | BLZF 5.00/24 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 24, 180°, Box |