



#### General ordering data

|                  |  |
|------------------|--|
| Order No.        | 1671190000   |
| Part designation | BLZF 5.08/19/90 SN SW  |
| Version          | PCB plug-in connector, Female connectors,<br>Tension clamp connection, Clamping range, max.:<br>3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 19, 90°,<br>Box |
| EAN              | 4008190432898  |
| Qty.             | 20 pc(s).  |

#### System parameters

|   |   |
|---|---|
| Conductor connection system               | Tension clamp connection                            |
| Outgoing direction of conductor           | 90°   |
| Pitch                                     | 5.08 mm   |
| Pitch in inch                             | 0.2 inch  |
| No. of poles                              | 19  |
| No. of rows                               | 1   |
| Screwdriver blade                         | 0.6 x 3.5   |
| Screwdriver blade standard                | DIN 5264-A  |
| Stripping length                          | 10 mm   |
| L1 in mm                                  | 91.44 mm  |
| L1 in inch                                | 3.6 inch  |
| Electric shock protection to DIN VDE 0470 | Finger-safe plugged/ back-of-hand-safe<br>unplugged |

## System parameters

### Material data

|                           |                     |
|---------------------------|---------------------|
| Insulating material       | PBT                 |
| Colour                    | black               |
| colour chart              | Similar to RAL 9011 |
| 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.                              | 3.31 mm <sup>2</sup> |
| AWG, min.   | 26                   |
| AWG, max.   | 12                   |
| Solid, min. H05(07) V-U                           | 0.2 mm <sup>2</sup>  |
| Solid, max. H05(07) V-U                           | 2.5 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                        | 0.2 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. | 0.2 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.   | 0.2 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                        | 2.8 mm x 2.0 mm;     |

### DIN IEC rating data

|  |                   |
|--|-------------------|
| Rated current, min. No. pins (Tu=20°C)   | 16.5 A            |
| Rated current, max. No. pins (Tu=20°C)   | 12.5 A            |
| Rated current, min. No. pins (Tu=40°C)   | 14 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. | 12    |

#### UL 1059 rating data

|                             |       |
|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A  |
| AWG conductor, min.         | 26    |
| AWG conductor, max.         | 12    |

#### 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  |
|------------|----------------------|--|
| 1670790000 | BLZF 5.08/2/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 2, 90°, Box |
| 1671020000 | BLZF 5.08/2/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 2, 90°, Box |
| 1670800000 | BLZF 5.08/3/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 3, 90°, Box |
| 1671030000 | BLZF 5.08/3/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 3, 90°, Box |
| 1670810000 | BLZF 5.08/4/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 4, 90°, Box |
| 1671040000 | BLZF 5.08/4/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 4, 90°, Box |
| 1670820000 | BLZF 5.08/5/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 5, 90°, Box |

|            |                       |   |
|------------|-----------------------|---|
| 1671050000 | BLZF 5.08/5/90 SN SW  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 5, 90°, Box  |
| 1670830000 | BLZF 5.08/6/90 SN OR  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 6, 90°, Box  |
| 1671060000 | BLZF 5.08/6/90 SN SW  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 6, 90°, Box  |
| 1670840000 | BLZF 5.08/7/90 SN OR  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 7, 90°, Box  |
| 1671070000 | BLZF 5.08/7/90 SN SW  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 7, 90°, Box  |
| 1670850000 | BLZF 5.08/8/90 SN OR  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 8, 90°, Box  |
| 1671080000 | BLZF 5.08/8/90 SN SW  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 8, 90°, Box  |
| 1670860000 | BLZF 5.08/9/90 SN OR  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 9, 90°, Box  |
| 1671090000 | BLZF 5.08/9/90 SN SW  | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 9, 90°, Box  |
| 1670870000 | BLZF 5.08/10/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 10, 90°, Box |
| 1671100000 | BLZF 5.08/10/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 10, 90°, Box |
| 1670880000 | BLZF 5.08/11/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 11, 90°, Box |
| 1671110000 | BLZF 5.08/11/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 11, 90°, Box |
| 1670890000 | BLZF 5.08/12/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 12, 90°, Box |
| 1671120000 | BLZF 5.08/12/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 12, 90°, Box |
| 1670900000 | BLZF 5.08/13/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 13, 90°, Box |
| 1671130000 | BLZF 5.08/13/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 13, 90°, Box |

|            |                       |   |
|------------|-----------------------|---|
| 1670910000 | BLZF 5.08/14/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 14, 90°, Box |
| 1671140000 | BLZF 5.08/14/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 14, 90°, Box |
| 1670920000 | BLZF 5.08/15/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 15, 90°, Box |
| 1671150000 | BLZF 5.08/15/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 15, 90°, Box |
| 1670930000 | BLZF 5.08/16/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 16, 90°, Box |
| 1671160000 | BLZF 5.08/16/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 16, 90°, Box |
| 1670940000 | BLZF 5.08/17/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 17, 90°, Box |
| 1671170000 | BLZF 5.08/17/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 17, 90°, Box |
| 1670950000 | BLZF 5.08/18/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 18, 90°, Box |
| 1671180000 | BLZF 5.08/18/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 18, 90°, Box |
| 1670960000 | BLZF 5.08/19/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 19, 90°, Box |
| 1670970000 | BLZF 5.08/20/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 20, 90°, Box |
| 1671200000 | BLZF 5.08/20/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 20, 90°, Box |
| 1670980000 | BLZF 5.08/21/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 21, 90°, Box |
| 1671210000 | BLZF 5.08/21/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 21, 90°, Box |
| 1670990000 | BLZF 5.08/22/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 22, 90°, Box |
| 1671220000 | BLZF 5.08/22/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 22, 90°, Box |

|           |                       |   |
|-----------|-----------------------|---|
| 167100000 | BLZF 5.08/23/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 23, 90°, Box |
| 167123000 | BLZF 5.08/23/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 23, 90°, Box |
| 167101000 | BLZF 5.08/24/90 SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 24, 90°, Box |
| 167124000 | BLZF 5.08/24/90 SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 24, 90°, Box |