



#### General ordering data

|                  |                                                                                                                                                                      |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Order No.        | 1637050000                                                                                                                                                           |
| Part designation | BLZ 5.00/18/90 SN SW                                                                                                                                                 |
| Version          | PCB plug-in connector, Female connectors,<br>Clamping yoke connection, Clamping range, max.:<br>3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 18, 90°,<br>Box |
| EAN              | 4008190274290                                                                                                                                                        |
| Qty.             | 18 pc(s).                                                                                                                                                            |

#### System parameters

|                                           |                          |
|-------------------------------------------|--------------------------|
| Conductor connection system               | Clamping yoke connection |
| Outgoing direction of conductor           | 90°                      |
| Pitch                                     | 5 mm                     |
| Pitch in inch                             | 0.197 inch               |
| No. of poles                              | 18                       |
| No. of rows                               | 1                        |
| Screwdriver blade                         | 0.6 x 3.5                |
| Screwdriver blade standard                | DIN 5264                 |
| Tightening torque, min.                   | 0.4 Nm                   |
| Tightening torque, max.                   | 0.5 Nm                   |
| Clamping screw                            | M 2.5                    |
| Stripping length                          | 7 mm                     |
| L1 in mm                                  | 85 mm                    |
| L1 in inch                                | 3.346 inch               |
| Electric shock protection to DIN VDE 0470 | IP 20                    |
| Electric shock protection to DIN VDE 0470 | Safe from finger touch   |

#### 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              |

#### Material data

|                       |              |
|-----------------------|--------------|
| 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                           | 0.5 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. | 2.5 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.   | 2.5 mm <sup>2</sup>     |
| Gauge to EN 60999 a x b; ø                        | 2.8 mm x 2.0 mm; 2.4 mm |

#### DIN IEC rating data

|                                                                                |                   |
|--------------------------------------------------------------------------------|-------------------|
| Rated current, min. No. pins (Tu=20°C)                                         | 15 A              |
| Rated current, max. No. pins (Tu=20°C)                                         | 12 A              |
| Rated current, min. No. pins (Tu=40°C)                                         | 12 A              |
| Rated current, max. No. pins (Tu=40°C)                                         | 10 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                                                                                                                                                    |
|------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1635940000 | BLZ 5.00/2/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 2, 90°, Box |
| 1636890000 | BLZ 5.00/2/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 2, 90°, Box |
| 1635950000 | BLZ 5.00/3/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 3, 90°, Box |
| 1636900000 | BLZ 5.00/3/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 3, 90°, Box |
| 1635960000 | BLZ 5.00/4/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 4, 90°, Box |
| 1636910000 | BLZ 5.00/4/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 4, 90°, Box |
| 1635970000 | BLZ 5.00/5/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 5, 90°, Box |
| 1636920000 | BLZ 5.00/5/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 5, 90°, Box |
| 1635980000 | BLZ 5.00/6/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 6, 90°, Box |
| 1636930000 | BLZ 5.00/6/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 6, 90°, Box |
| 1635990000 | BLZ 5.00/7/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 7, 90°, Box |

|            |                      |                                                                                                                                                             |
|------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1636940000 | BLZ 5.00/7/90 SN SW  | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 7, 90°, Box  |
| 1636000000 | BLZ 5.00/8/90 SN OR  | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 8, 90°, Box  |
| 1636950000 | BLZ 5.00/8/90 SN SW  | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 8, 90°, Box  |
| 1636010000 | BLZ 5.00/9/90 SN OR  | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 9, 90°, Box  |
| 1636960000 | BLZ 5.00/9/90 SN SW  | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 9, 90°, Box  |
| 1636020000 | BLZ 5.00/10/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 10, 90°, Box |
| 1636970000 | BLZ 5.00/10/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 10, 90°, Box |
| 1636030000 | BLZ 5.00/11/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 11, 90°, Box |
| 1636980000 | BLZ 5.00/11/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 11, 90°, Box |
| 1636040000 | BLZ 5.00/12/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 12, 90°, Box |
| 1636990000 | BLZ 5.00/12/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 12, 90°, Box |
| 1636050000 | BLZ 5.00/13/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 13, 90°, Box |
| 1637000000 | BLZ 5.00/13/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 13, 90°, Box |
| 1636060000 | BLZ 5.00/14/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 14, 90°, Box |
| 1637010000 | BLZ 5.00/14/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 14, 90°, Box |
| 1636070000 | BLZ 5.00/15/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 15, 90°, Box |
| 1637020000 | BLZ 5.00/15/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 15, 90°, Box |

|            |                      |                                                                                                                                                             |
|------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1636080000 | BLZ 5.00/16/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 16, 90°, Box |
| 1637030000 | BLZ 5.00/16/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 16, 90°, Box |
| 1636090000 | BLZ 5.00/17/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 17, 90°, Box |
| 1637040000 | BLZ 5.00/17/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 17, 90°, Box |
| 1636100000 | BLZ 5.00/18/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 18, 90°, Box |
| 1636110000 | BLZ 5.00/19/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 19, 90°, Box |
| 1637060000 | BLZ 5.00/19/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 19, 90°, Box |
| 1636120000 | BLZ 5.00/20/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 20, 90°, Box |
| 1637070000 | BLZ 5.00/20/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 20, 90°, Box |
| 1636130000 | BLZ 5.00/21/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 21, 90°, Box |
| 1637080000 | BLZ 5.00/21/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 21, 90°, Box |
| 1636140000 | BLZ 5.00/22/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 22, 90°, Box |
| 1637090000 | BLZ 5.00/22/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 22, 90°, Box |
| 1636150000 | BLZ 5.00/23/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 23, 90°, Box |
| 1637100000 | BLZ 5.00/23/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 23, 90°, Box |
| 1636160000 | BLZ 5.00/24/90 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 24, 90°, Box |
| 1637110000 | BLZ 5.00/24/90 SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 5.00 mm, No. of poles: 24, 90°, Box |