



#### General ordering data

|                  |   |
|------------------|---|
| Order No.        | 1637760000  |
| Part designation | BLZ 5.00/20/270 SN OR   |
| 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: 20, 270°,<br>Box |
| EAN              | 4008190275006   |
| Qty.             | 18 pc(s).   |

#### System parameters

|   |                          |
|---|--------------------------|
| Conductor connection system               | Clamping yoke connection |
| Outgoing direction of conductor           | 270°                     |
| Pitch                                     | 5 mm                     |
| Pitch in inch                             | 0.197 inch               |
| No. of poles                              | 20                       |
| 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                                  | 95 mm                    |
| L1 in inch                                | 3.74 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                    | orange              |
| colour chart              | Similar to RAL 2000 |
| 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   |
|------------|----------------------|---|
| 1637580000 | BLZ 5.00/2/270 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, 270°, Box |
| 1637810000 | BLZ 5.00/2/270 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, 270°, Box |
| 1637590000 | BLZ 5.00/3/270 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, 270°, Box |
| 1637820000 | BLZ 5.00/3/270 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, 270°, Box |
| 1637600000 | BLZ 5.00/4/270 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, 270°, Box |
| 1637830000 | BLZ 5.00/4/270 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, 270°, Box |
| 1637610000 | BLZ 5.00/5/270 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, 270°, Box |
| 1637840000 | BLZ 5.00/5/270 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, 270°, Box |
| 1637620000 | BLZ 5.00/6/270 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, 270°, Box |
| 1637850000 | BLZ 5.00/6/270 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, 270°, Box |
| 1637630000 | BLZ 5.00/7/270 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, 270°, Box |

|            |                       |  |
|------------|-----------------------|--|
| 1637860000 | BLZ 5.00/7/270 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, 270°, Box  |
| 1637640000 | BLZ 5.00/8/270 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, 270°, Box  |
| 1637870000 | BLZ 5.00/8/270 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, 270°, Box  |
| 1637650000 | BLZ 5.00/9/270 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, 270°, Box  |
| 1637880000 | BLZ 5.00/9/270 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, 270°, Box  |
| 1637660000 | BLZ 5.00/10/270 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, 270°, Box |
| 1637890000 | BLZ 5.00/10/270 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, 270°, Box |
| 1637670000 | BLZ 5.00/11/270 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, 270°, Box |
| 1637900000 | BLZ 5.00/11/270 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, 270°, Box |
| 1637680000 | BLZ 5.00/12/270 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, 270°, Box |
| 1637910000 | BLZ 5.00/12/270 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, 270°, Box |
| 1637690000 | BLZ 5.00/13/270 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, 270°, Box |
| 1637920000 | BLZ 5.00/13/270 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, 270°, Box |
| 1637700000 | BLZ 5.00/14/270 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, 270°, Box |
| 1637930000 | BLZ 5.00/14/270 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, 270°, Box |
| 1637710000 | BLZ 5.00/15/270 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, 270°, Box |
| 1637940000 | BLZ 5.00/15/270 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, 270°, Box |

|            |                       |  |
|------------|-----------------------|--|
| 1637720000 | BLZ 5.00/16/270 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, 270°, Box |
| 1637950000 | BLZ 5.00/16/270 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, 270°, Box |
| 1637730000 | BLZ 5.00/17/270 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, 270°, Box |
| 1637960000 | BLZ 5.00/17/270 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, 270°, Box |
| 1637740000 | BLZ 5.00/18/270 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, 270°, Box |
| 1637970000 | BLZ 5.00/18/270 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: 18, 270°, Box |
| 1637750000 | BLZ 5.00/19/270 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, 270°, Box |
| 1637980000 | BLZ 5.00/19/270 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, 270°, Box |
| 1637990000 | BLZ 5.00/20/270 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, 270°, Box |
| 1637770000 | BLZ 5.00/21/270 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, 270°, Box |
| 1638000000 | BLZ 5.00/21/270 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, 270°, Box |
| 1637780000 | BLZ 5.00/22/270 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, 270°, Box |
| 1638010000 | BLZ 5.00/22/270 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, 270°, Box |
| 1637790000 | BLZ 5.00/23/270 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, 270°, Box |
| 1638020000 | BLZ 5.00/23/270 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, 270°, Box |
| 1637800000 | BLZ 5.00/24/270 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, 270°, Box |
| 1638030000 | BLZ 5.00/24/270 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, 270°, Box |