



#### General ordering data

|                  |  |
|------------------|--|
| Order No.        | 1627940000   |
| Part designation | BLZ 7.50/4 SN OR   |
| Version          | PCB plug-in connector, Female connectors,<br>Clamping yoke connection, Clamping range, max.:<br>3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 4, 180°,<br>Box |
| EAN              | 4008190200749  |
| Qty.             | 100 pc(s).   |

#### System parameters

|   |                          |
|---|--------------------------|
| Conductor connection system               | Clamping yoke connection |
| Outgoing direction of conductor           | 180°                     |
| Pitch                                     | 7.5 mm                   |
| Pitch in inch                             | 0.295 inch               |
| No. of poles                              | 4                        |
| 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                                  | 22.5 mm                  |
| L1 in inch                                | 0.886 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        |

#### Material data

|                 |        |
|-----------------|--------|
| 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. | 2.5 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.   | 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)   | 18.5 A            |
| Rated current, max. No. pins (Tu=20°C)   | 17 A              |
| Rated current, min. No. pins (Tu=40°C)   | 15 A              |
| Rated current, max. No. pins (Tu=40°C)   | 14.5 A            |
| Rated voltage for overvoltage class/pollution severity II/2                    | 800 V             |
| Rated voltage for overvoltage class/pollution severity III/2                   | 630 V             |
| Rated voltage for overvoltage class/pollution severity III/3                   | 500 V             |
| Rated impulse withstand voltage for overvoltage class/pollution severity II/2  | 6 kV              |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/2 | 6 kV              |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/3 | 6 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  |
|------------|-------------------|--|
| 1627920000 | BLZ 7.50/2 SN OR  | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 2, 180°, Box  |
| 1627930000 | BLZ 7.50/3 SN OR  | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 3, 180°, Box  |
| 1627950000 | BLZ 7.50/5 SN OR  | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 5, 180°, Box  |
| 1627960000 | BLZ 7.50/6 SN OR  | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 6, 180°, Box  |
| 1627970000 | BLZ 7.50/7 SN OR  | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 7, 180°, Box  |
| 1627980000 | BLZ 7.50/8 SN OR  | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 8, 180°, Box  |
| 1627990000 | BLZ 7.50/9 SN OR  | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 9, 180°, Box  |
| 1628000000 | BLZ 7.50/10 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 10, 180°, Box |
| 1628010000 | BLZ 7.50/11 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 11, 180°, Box |
| 1628020000 | BLZ 7.50/12 SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 3.31 mm <sup>2</sup> , Pitch: 7.50 mm, No. of poles: 12, 180°, Box |