



#### General ordering data

|                  |                                                                                                                                                                     |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Order No.        | 1792820000                                                                                                                                                          |
| Part designation | BCZ 3.81/08/180 SN BK BX                                                                                                                                            |
| Version          | PCB plug-in connector, Female connectors,<br>Clamping yoke connection, Clamping range, max.:<br>1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 8, 180°,<br>Box |
| EAN              | 4032248226801                                                                                                                                                       |
| Qty.             | 50 pc(s).                                                                                                                                                           |

#### System parameters

|                                 |                          |
|---------------------------------|--------------------------|
| Conductor connection system     | Clamping yoke connection |
| Outgoing direction of conductor | 180°                     |
| Pitch                           | 3.81 mm                  |
| Pitch in inch                   | 0.15 inch                |
| No. of poles                    | 8                        |
| No. of rows                     | 1                        |
| Screwdriver blade               | 0.4 x 2.5                |
| Screwdriver blade standard      | DIN 5264                 |
| Tightening torque, min.         | 0.2                      |
| Tightening torque, max.         | 0.25 Nm                  |
| Clamping screw                  | M 2                      |
| Stripping length                | 7 mm                     |
| L1 in mm                        | 26.67 mm                 |

#### System parameters

|                                           |                        |
|-------------------------------------------|------------------------|
| L1 in inch                                | 1.05 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       | PA GF               |
| Colour                    | black               |
| colour chart              | Similar to RAL 9011 |
| Insulating material group | II                  |
| Flammability class UL 94  | V-0                 |
| CTI                       | >= 475              |
| Contact base material     | Copper alloy        |
| Contact surface           | tinned              |

#### Connectable conductors

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Clamping range, min.                              | 0.08 mm <sup>2</sup>     |
| Clamping range, max.                              | 1.5 mm <sup>2</sup>      |
| AWG, min.                                         | 28                       |
| AWG, max.                                         | 16                       |
| Solid, min. H05(07) V-U                           | 0.2 mm <sup>2</sup>      |
| Solid, max. H05(07) V-U                           | 1.5 mm <sup>2</sup>      |
| Flexible, min. H05(07) V-K                        | 0.2 mm <sup>2</sup>      |
| Flexible, max. H05(07) V-K                        | 1.5 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                        | 2.4 mm x 1.5 mm ; 2.4 mm |

#### DIN IEC rating data

|                                                                                |                  |
|--------------------------------------------------------------------------------|------------------|
| Rated current, min. No. pins (Tu=20°C)                                         | 17.5 A           |
| Rated current, max. No. pins (Tu=20°C)                                         | 17.5 A           |
| Rated current, min. No. pins (Tu=40°C)                                         | 17.5 A           |
| Rated current, max. No. pins (Tu=40°C)                                         | 15.2 A           |
| Rated voltage for overvoltage class/pollution severity II/2                    | 320 V            |
| Rated voltage for overvoltage class/pollution severity III/2                   | 160 V            |
| Rated voltage for overvoltage class/pollution severity III/3                   | 160 V            |
| Rated impulse withstand voltage for overvoltage class/pollution severity II/2  | 2.5 kV           |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/2 | 2.5 kV           |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/3 | 2.5 kV           |
| Short-time withstand current resistance                                        | 3 x 1s with 76 A |

#### CSA rating data

|                             |       |
|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A  |

#### CSA rating data

|                                    |    |
|------------------------------------|----|
| AWG conductor (field wiring), min. | 28 |
| AWG conductor (field wiring), max. | 16 |

#### UL 1059 rating data

|                             |       |
|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A  |
| AWG conductor, min.         | 28    |
| AWG conductor, max.         | 16    |

#### Approvals

Approvals institutes



#### Classifications

|            |             |
|------------|-------------|
| 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                                                                                                                                                    |
|------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1940730000 | BCZ 3.81/02/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 2, 180°, Box |
| 1792770000 | BCZ 3.81/02/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 2, 180°, Box |
| 1792860000 | BCZ 3.81/02/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 2, 180°, Box |
| 1940740000 | BCZ 3.81/03/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 3, 180°, Box |
| 1792780000 | BCZ 3.81/03/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 3, 180°, Box |
| 1792870000 | BCZ 3.81/03/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 3, 180°, Box |
| 1940750000 | BCZ 3.81/04/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 4, 180°, Box |
| 1792790000 | BCZ 3.81/04/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 4, 180°, Box |

|            |                          |                                                                                                                                                             |
|------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1792880000 | BCZ 3.81/04/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 4, 180°, Box  |
| 1940760000 | BCZ 3.81/05/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 5, 180°, Box  |
| 1792800000 | BCZ 3.81/05/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 5, 180°, Box  |
| 1792890000 | BCZ 3.81/05/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 5, 180°, Box  |
| 1940770000 | BCZ 3.81/06/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 6, 180°, Box  |
| 1792810000 | BCZ 3.81/06/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 6, 180°, Box  |
| 1792900000 | BCZ 3.81/06/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 6, 180°, Box  |
| 1940780000 | BCZ 3.81/07/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 7, 180°, Box  |
| 1871410000 | BCZ 3.81/07/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 7, 180°, Box  |
| 1871400000 | BCZ 3.81/07/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 7, 180°, Box  |
| 1940790000 | BCZ 3.81/08/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 8, 180°, Box  |
| 1792910000 | BCZ 3.81/08/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 8, 180°, Box  |
| 1940800000 | BCZ 3.81/09/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 9, 180°, Box  |
| 1871390000 | BCZ 3.81/09/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 9, 180°, Box  |
| 1871380000 | BCZ 3.81/09/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 9, 180°, Box  |
| 1940810000 | BCZ 3.81/10/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 10, 180°, Box |
| 1792830000 | BCZ 3.81/10/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 10, 180°, Box |

|            |                          |                                                                                                                                                             |
|------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1792920000 | BCZ 3.81/10/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 10, 180°, Box |
| 1940820000 | BCZ 3.81/11/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 11, 180°, Box |
| 1899400000 | BCZ 3.81/11/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 11, 180°, Box |
| 1899390000 | BCZ 3.81/11/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 11, 180°, Box |
| 1940830000 | BCZ 3.81/12/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 12, 180°, Box |
| 1792840000 | BCZ 3.81/12/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 12, 180°, Box |
| 1792930000 | BCZ 3.81/12/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 12, 180°, Box |
| 1940840000 | BCZ 3.81/13/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 13, 180°, Box |
| 1899440000 | BCZ 3.81/13/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 13, 180°, Box |
| 1899430000 | BCZ 3.81/13/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 13, 180°, Box |
| 1940850000 | BCZ 3.81/14/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 14, 180°, Box |
| 1899480000 | BCZ 3.81/14/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 14, 180°, Box |
| 1899470000 | BCZ 3.81/14/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 14, 180°, Box |
| 1940860000 | BCZ 3.81/15/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 15, 180°, Box |
| 1899520000 | BCZ 3.81/15/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 15, 180°, Box |
| 1899510000 | BCZ 3.81/15/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 15, 180°, Box |
| 1940870000 | BCZ 3.81/16/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 16, 180°, Box |

|            |                          |                                                                                                                                                             |
|------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1792850000 | BCZ 3.81/16/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 16, 180°, Box |
| 1792940000 | BCZ 3.81/16/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 16, 180°, Box |
| 1940890000 | BCZ 3.81/17/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 17, 180°, Box |
| 1940970000 | BCZ 3.81/17/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 17, 180°, Box |
| 1940930000 | BCZ 3.81/17/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 17, 180°, Box |
| 1940980000 | BCZ 3.81/18/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 18, 180°, Box |
| 1940900000 | BCZ 3.81/18/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 18, 180°, Box |
| 1940940000 | BCZ 3.81/18/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 18, 180°, Box |
| 1940910000 | BCZ 3.81/19/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 19, 180°, Box |
| 1940990000 | BCZ 3.81/19/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 19, 180°, Box |
| 1940950000 | BCZ 3.81/19/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 19, 180°, Box |
| 1940920000 | BCZ 3.81/20/180 SN OR BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 20, 180°, Box |
| 1941000000 | BCZ 3.81/20/180 SN BK BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 20, 180°, Box |
| 1940960000 | BCZ 3.81/20/180 SN GN BX | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 20, 180°, Box |