



#### General ordering data

|                  |                                                                                                                                                             |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Order No.        | 1799070000                                                                                                                                                  |
| Part designation | BCZ 3.81/10/270 SN GN                                                                                                                                       |
| Version          | 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, 270°, Box |
| EAN              | 4032248243969                                                                                                                                               |
| Qty.             | 50 pc(s).                                                                                                                                                   |

#### System parameters

|                                           |                          |
|-------------------------------------------|--------------------------|
| Conductor connection system               | Clamping yoke connection |
| Outgoing direction of conductor           | 270°                     |
| Pitch                                     | 3.81 mm                  |
| Pitch in inch                             | 0.15 inch                |
| No. of poles                              | 10                       |
| 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                                  | 34.29 mm                 |
| L1 in inch                                | 1.35 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                    | Pale green          |
| colour chart              | Similar to RAL 6021 |
| Insulating material group | II                  |
| Flammability class UL 94  | V-0                 |
| CTI                       | >= 475              |

#### Material data

|                       |              |
|-----------------------|--------------|
| 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)                                         | 15.9 A           |
| Rated current, min. No. pins (Tu=40°C)                                         | 17.5 A           |
| Rated current, max. No. pins (Tu=40°C)                                         | 14.1 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  |
| 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

|            |             |
|------------|-------------|
| 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                                                                                                                                                    |
|------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1940190000 | BCZ 3.81/2/270 SN OR | 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, 270°, Box |
| 1798940000 | BCZ 3.81/2/270 SN SW | 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, 270°, Box |
| 1799010000 | BCZ 3.81/2/270 SN GN | 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, 270°, Box |
| 1940200000 | BCZ 3.81/3/270 SN OR | 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, 270°, Box |
| 1798160000 | BCZ 3.81/3/270 SN SW | 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, 270°, Box |
| 1799020000 | BCZ 3.81/3/270 SN GN | 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, 270°, Box |
| 1940210000 | BCZ 3.81/4/270 SN OR | 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, 270°, Box |
| 1798950000 | BCZ 3.81/4/270 SN SW | 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, 270°, Box |
| 1799030000 | BCZ 3.81/4/270 SN GN | 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, 270°, Box |
| 1940220000 | BCZ 3.81/5/270 SN OR | 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, 270°, Box |
| 1798960000 | BCZ 3.81/5/270 SN SW | 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, 270°, Box |

|            |                       |                                                                                                                                                             |
|------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1799040000 | BCZ 3.81/5/270 SN GN  | 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, 270°, Box  |
| 1940230000 | BCZ 3.81/6/270 SN OR  | 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, 270°, Box  |
| 1798970000 | BCZ 3.81/6/270 SN SW  | 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, 270°, Box  |
| 1799050000 | BCZ 3.81/6/270 SN GN  | 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, 270°, Box  |
| 1940240000 | BCZ 3.81/7/270 SN OR  | 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, 270°, Box  |
| 1940400000 | BCZ 3.81/7/270 SN SW  | 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, 270°, Box  |
| 1940340000 | BCZ 3.81/7/270 SN GN  | 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, 270°, Box  |
| 1940250000 | BCZ 3.81/8/270 SN OR  | 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, 270°, Box  |
| 1798170000 | BCZ 3.81/8/270 SN SW  | 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, 270°, Box  |
| 1799060000 | BCZ 3.81/8/270 SN GN  | 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, 270°, Box  |
| 1940260000 | BCZ 3.81/9/270 SN OR  | 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, 270°, Box  |
| 1940410000 | BCZ 3.81/9/270 SN SW  | 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, 270°, Box  |
| 1940350000 | BCZ 3.81/9/270 SN GN  | 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, 270°, Box  |
| 1940270000 | BCZ 3.81/10/270 SN OR | 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, 270°, Box |
| 1798980000 | BCZ 3.81/10/270 SN SW | 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, 270°, Box |
| 1940280000 | BCZ 3.81/11/270 SN OR | 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, 270°, Box |
| 1940420000 | BCZ 3.81/11/270 SN SW | 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, 270°, Box |

|            |                       |                                                                                                                                                             |
|------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1940360000 | BCZ 3.81/11/270 SN GN | 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, 270°, Box |
| 1940290000 | BCZ 3.81/12/270 SN OR | 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, 270°, Box |
| 1798990000 | BCZ 3.81/12/270 SN SW | 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, 270°, Box |
| 1799080000 | BCZ 3.81/12/270 SN GN | 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, 270°, Box |
| 1940300000 | BCZ 3.81/13/270 SN OR | 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, 270°, Box |
| 1940430000 | BCZ 3.81/13/270 SN SW | 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, 270°, Box |
| 1940370000 | BCZ 3.81/13/270 SN GN | 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, 270°, Box |
| 1940310000 | BCZ 3.81/14/270 SN OR | 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, 270°, Box |
| 1940440000 | BCZ 3.81/14/270 SN SW | 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, 270°, Box |
| 1940380000 | BCZ 3.81/14/270 SN GN | 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, 270°, Box |
| 1940320000 | BCZ 3.81/15/270 SN OR | 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, 270°, Box |
| 1940450000 | BCZ 3.81/15/270 SN SW | 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, 270°, Box |
| 1940390000 | BCZ 3.81/15/270 SN GN | 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, 270°, Box |
| 1940330000 | BCZ 3.81/16/270 SN OR | 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, 270°, Box |
| 1799000000 | BCZ 3.81/16/270 SN SW | 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, 270°, Box |
| 1799090000 | BCZ 3.81/16/270 SN GN | 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, 270°, Box |