



General ordering data

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| Order No. | 1798860000 |
| Part designation | BCZ 3.81/3/90F SN GN |
| Version | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 3, 90°, Box |
| EAN | 4032248243549 |
| Qty. | 50 pc(s). |

System parameters

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|---|--------------------------|
| Conductor connection system | Clamping yoke connection |
| Outgoing direction of conductor | 90° |
| Pitch | 3.81 mm |
| Pitch in inch | 0.15 inch |
| No. of poles | 3 |
| 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 | 7.62 mm |
| L1 in inch | 0.3 inch |
| Electric shock protection to DIN VDE 0470 | IP 20 |
| Electric shock protection to DIN VDE 0470 | Safe from finger touch |

Material data

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|---------------------------|---------------------|
| 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 |
| Contact base material | Copper alloy |

Material data

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|-----------------|--------|
| Contact surface | tinned |
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Connectable conductors

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|---|--------------------------|
| Clamping range, min. | 0.08 mm ² |
| Clamping range, max. | 1.5 mm ² |
| AWG, min. | 28 |
| AWG, max. | 16 |
| Solid, min. H05(07) V-U | 0.2 mm ² |
| Solid, max. H05(07) V-U | 1.5 mm ² |
| Flexible, min. H05(07) V-K | 0.2 mm ² |
| Flexible, max. H05(07) V-K | 1.5 mm ² |
| With wire end ferrule, acc. to DIN 46 228/1, min. | 0.2 mm ² |
| With wire end ferrule, acc. to DIN 46 228/1, max. | 1.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.2 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 1.5 mm ² |
| Gauge to EN 60999 a x b; ø | 2.4 mm x 1.5 mm ; 2.4 mm |

DIN IEC rating data

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| 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

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| 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

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| 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

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|------------|-------------|
| 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 |
|------------|----------------------|---|
| 1939980000 | BCZ 3.81/2/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 2, 90°, Box |
| 1798780000 | BCZ 3.81/2/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 2, 90°, Box |
| 1798850000 | BCZ 3.81/2/90F SN GN | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 2, 90°, Box |
| 1939990000 | BCZ 3.81/3/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 3, 90°, Box |
| 1798140000 | BCZ 3.81/3/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 3, 90°, Box |
| 1940000000 | BCZ 3.81/4/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 4, 90°, Box |
| 1798790000 | BCZ 3.81/4/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 4, 90°, Box |
| 1798870000 | BCZ 3.81/4/90F SN GN | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 4, 90°, Box |
| 1940010000 | BCZ 3.81/5/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 5, 90°, Box |
| 1798800000 | BCZ 3.81/5/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 5, 90°, Box |
| 1798880000 | BCZ 3.81/5/90F SN GN | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 5, 90°, Box |

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| 1940020000 | BCZ 3.81/6/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 6, 90°, Box |
| 1798810000 | BCZ 3.81/6/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 6, 90°, Box |
| 1798890000 | BCZ 3.81/6/90F SN GN | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 6, 90°, Box |
| 1940030000 | BCZ 3.81/7/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 7, 90°, Box |
| 1845690000 | BCZ 3.81/7/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 7, 90°, Box |
| 1940130000 | BCZ 3.81/7/90F SN GN | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 7, 90°, Box |
| 1940040000 | BCZ 3.81/8/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 8, 90°, Box |
| 1798150000 | BCZ 3.81/8/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 8, 90°, Box |
| 1798900000 | BCZ 3.81/8/90F SN GN | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 8, 90°, Box |
| 1940050000 | BCZ 3.81/9/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 9, 90°, Box |
| 1899540000 | BCZ 3.81/9/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 9, 90°, Box |
| 1940140000 | BCZ 3.81/9/90F SN GN | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 9, 90°, Box |
| 1940060000 | BCZ 3.81/10/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 10, 90°, Box |
| 1798820000 | BCZ 3.81/10/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 10, 90°, Box |
| 1798910000 | BCZ 3.81/10/90F SN GN | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 10, 90°, Box |
| 1940070000 | BCZ 3.81/11/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 11, 90°, Box |
| 1899560000 | BCZ 3.81/11/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 11, 90°, Box |

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| 1940150000 | BCZ 3.81/11/90F SN GN | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 11, 90°, Box |
| 1940080000 | BCZ 3.81/12/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 12, 90°, Box |
| 1798830000 | BCZ 3.81/12/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 12, 90°, Box |
| 1798920000 | BCZ 3.81/12/90F SN GN | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 12, 90°, Box |
| 1940090000 | BCZ 3.81/13/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 13, 90°, Box |
| 1899580000 | BCZ 3.81/13/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 13, 90°, Box |
| 1940160000 | BCZ 3.81/13/90F SN GN | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 13, 90°, Box |
| 1940100000 | BCZ 3.81/14/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 14, 90°, Box |
| 1899600000 | BCZ 3.81/14/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 14, 90°, Box |
| 1940170000 | BCZ 3.81/14/90F SN GN | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 14, 90°, Box |
| 1940110000 | BCZ 3.81/15/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 15, 90°, Box |
| 1899620000 | BCZ 3.81/15/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 15, 90°, Box |
| 1940180000 | BCZ 3.81/15/90F SN GN | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 15, 90°, Box |
| 1940120000 | BCZ 3.81/16/90F SN OR | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 16, 90°, Box |
| 1798840000 | BCZ 3.81/16/90F SN SW | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 16, 90°, Box |
| 1798930000 | BCZ 3.81/16/90F SN GN | PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 16, 90°, Box |