



Order No.	1798170000
Part designation	BCZ 3.81/08/270 SN BK BX
Version	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 8, 270°, Box
EAN	4032248241361
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	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
<u>.</u>	

Stripping length L1 in mm

Clamping screw

- 1 -

M 2

7 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	
Material data	
Insulating material	PA GF
Colour	black
colour chart	Similar to RAL 9011
Insulating material group	
Flammability class UL 94	V-0
CTI	>= 475
Contact base material	Copper alloy
Contact surface	tinned
A successful to a successful to an	
Connectable conductors	0.00
Clamping range, min.	0.08 mm ²
Clamping range, max.	1.5 mm ²
AWG, min.	28
AWG, max.	16 0.2 mm²
Solid, min. H05(07) V-U	
Solid, max. H05(07) V-U	1.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm² 1.5 mm²
Flexible, max. H05(07) V-K	0.2 mm ²
With wire end ferrule, acc. to DIN 46 228/1, min.	1.5 mm ²
With wire end ferrule, acc. to DIN 46 228/1, max.	0.2 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, max. Gauge to EN 60999 a x b; ø	2.4 mm x 1.5 mm ; 2.4 mm
Gauge to EN 00999 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 may No pins (Tu=20°C)	
Rated current, max. No. pins (Tu=20°C)	15.9 A
Rated current, min. No. pins(Tu=40°C)	15.9 A 17.5 A
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C)	15.9 A 17.5 A 14.1 A
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution	15.9 A 17.5 A
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution severity II/2	15.9 A 17.5 A 14.1 A 320 V
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution severity II/2 Rated voltage for overvoltage class/pollution	15.9 A 17.5 A 14.1 A
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution severity II/2 Rated voltage for overvoltage class/pollution severity III/2	15.9 A 17.5 A 14.1 A 320 V 160 V
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution severity II/2 Rated voltage for overvoltage class/pollution severity III/2 Rated voltage for overvoltage class/pollution	15.9 A 17.5 A 14.1 A 320 V
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution severity II/2 Rated voltage for overvoltage class/pollution severity III/2 Rated voltage for overvoltage class/pollution severity III/2	15.9 A 17.5 A 14.1 A 320 V 160 V 160 V
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution severity II/2 Rated voltage for overvoltage class/pollution severity III/2 Rated voltage for overvoltage class/pollution severity III/3 Rated impulse withstand voltage for overvoltage	15.9 A 17.5 A 14.1 A 320 V 160 V
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution severity II/2 Rated voltage for overvoltage class/pollution severity III/2 Rated voltage for overvoltage class/pollution severity III/3 Rated impulse withstand voltage for overvoltage class/pollution severity II/2	15.9 A 17.5 A 14.1 A 320 V 160 V 160 V 2.5 kV
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution severity II/2 Rated voltage for overvoltage class/pollution severity III/2 Rated voltage for overvoltage class/pollution severity III/3 Rated impulse withstand voltage for overvoltage class/pollution severity II/2 Rated impulse withstand voltage for overvoltage	15.9 A 17.5 A 14.1 A 320 V 160 V 160 V
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution severity II/2 Rated voltage for overvoltage class/pollution severity III/2 Rated voltage for overvoltage class/pollution severity III/3 Rated impulse withstand voltage for overvoltage class/pollution severity II/2 Rated impulse withstand voltage for overvoltage class/pollution severity II/2	15.9 A 17.5 A 14.1 A 320 V 160 V 160 V 2.5 kV 2.5 kV
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution severity II/2 Rated voltage for overvoltage class/pollution severity III/2 Rated voltage for overvoltage class/pollution severity III/3 Rated impulse withstand voltage for overvoltage class/pollution severity II/2 Rated impulse withstand voltage for overvoltage class/pollution severity III/2 Rated impulse withstand voltage for overvoltage	15.9 A 17.5 A 14.1 A 320 V 160 V 160 V 2.5 kV
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution severity II/2 Rated voltage for overvoltage class/pollution severity III/2 Rated voltage for overvoltage class/pollution severity III/3 Rated impulse withstand voltage for overvoltage class/pollution severity II/2 Rated impulse withstand voltage for overvoltage class/pollution severity III/2 Rated impulse withstand voltage for overvoltage class/pollution severity III/2	15.9 A 17.5 A 14.1 A 320 V 160 V 2.5 kV 2.5 kV 2.5 kV
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution severity II/2 Rated voltage for overvoltage class/pollution severity III/2 Rated voltage for overvoltage class/pollution severity III/3 Rated impulse withstand voltage for overvoltage class/pollution severity II/2 Rated impulse withstand voltage for overvoltage class/pollution severity III/2 Rated impulse withstand voltage for overvoltage	15.9 A 17.5 A 14.1 A 320 V 160 V 160 V 2.5 kV 2.5 kV
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Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution severity II/2 Rated voltage for overvoltage class/pollution severity III/2 Rated voltage for overvoltage class/pollution severity III/3 Rated impulse withstand voltage for overvoltage class/pollution severity II/2 Rated impulse withstand voltage for overvoltage class/pollution severity III/2 Rated impulse withstand voltage for overvoltage class/pollution severity III/2 Rated impulse withstand voltage for overvoltage class/pollution severity III/3 Short-time withstand current resistance	15.9 A 17.5 A 14.1 A 320 V 160 V 160 V 2.5 kV 2.5 kV 2.5 kV 3 x 1s with 76 A
Rated current, min. No. pins(Tu=40°C) Rated current, max. No. pins (Tu=40°C) Rated voltage for overvoltage class/pollution severity II/2 Rated voltage for overvoltage class/pollution severity III/2 Rated voltage for overvoltage class/pollution severity III/3 Rated impulse withstand voltage for overvoltage class/pollution severity II/2 Rated impulse withstand voltage for overvoltage class/pollution severity III/2 Rated impulse withstand voltage for overvoltage class/pollution severity III/2 Rated impulse withstand voltage for overvoltage class/pollution severity III/2 Rated impulse withstand voltage for overvoltage class/pollution severity III/3 Short-time withstand current resistance	15.9 A 17.5 A 14.1 A 320 V 160 V 2.5 kV 2.5 kV 2.5 kV



CSA rating data	
AWG conductor (field wiring), min.	28
AWG conductor (field wiring), max.	16
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

1940190000	BCZ 3.81/02/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 2, 270°, Box
1798940000	BCZ 3.81/02/270 SN BK BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 2, 270°, Box
1799010000	BCZ 3.81/02/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 2, 270°, Box
1940200000	BCZ 3.81/03/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 3, 270°, Box
1798160000	BCZ 3.81/03/270 SN BK BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 3, 270°, Box
1799020000	BCZ 3.81/03/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 3, 270°, Box
1940210000	BCZ 3.81/04/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 4, 270°, Box
1798950000	BCZ 3.81/04/270 SN BK BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 4, 270°, Box



1799030000	BCZ 3.81/04/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 4, 270°, Box
1940220000	BCZ 3.81/05/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 5, 270°, Box
1798960000	BCZ 3.81/05/270 SN BK BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 5, 270°, Box
1799040000	BCZ 3.81/05/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 5, 270°, Box
1940230000	BCZ 3.81/06/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 6, 270°, Box
1798970000	BCZ 3.81/06/270 SN BK BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 6, 270°, Box
1799050000	BCZ 3.81/06/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 6, 270°, Box
1940240000	BCZ 3.81/07/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 7, 270°, Box
1940400000	BCZ 3.81/07/270 SN BK BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 7, 270°, Box
1940340000	BCZ 3.81/07/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 7, 270°, Box
1940250000	BCZ 3.81/08/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 8, 270°, Box
1799060000	BCZ 3.81/08/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 8, 270°, Box
1940260000	BCZ 3.81/09/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 9, 270°, Box
1940410000	BCZ 3.81/09/270 SN BK BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 9, 270°, Box
1940350000	BCZ 3.81/09/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 9, 270°, Box
1940270000	BCZ 3.81/10/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 10, 270°, Box
1798980000	BCZ 3.81/10/270 SN BK BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 10, 270°, Box



1799070000	BCZ 3.81/10/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 10, 270°, Box
1940280000	BCZ 3.81/11/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 11, 270°, Box
1940420000	BCZ 3.81/11/270 SN BK BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 11, 270°, Box
1940360000	BCZ 3.81/11/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 11, 270°, Box
1940290000	BCZ 3.81/12/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 12, 270°, Box
1798990000	BCZ 3.81/12/270 SN BK BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 12, 270°, Box
1799080000	BCZ 3.81/12/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 12, 270°, Box
1940300000	BCZ 3.81/13/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 13, 270°, Box
1940430000	BCZ 3.81/13/270 SN BK BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 13, 270°, Box
1940370000	BCZ 3.81/13/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 13, 270°, Box
1940310000	BCZ 3.81/14/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 14, 270°, Box
1940440000	BCZ 3.81/14/270 SN BK BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 14, 270°, Box
1940380000	BCZ 3.81/14/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 14, 270°, Box
1940320000	BCZ 3.81/15/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 15, 270°, Box
1940450000	BCZ 3.81/15/270 SN BK BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 15, 270°, Box
1940390000	BCZ 3.81/15/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 15, 270°, Box
1940330000	BCZ 3.81/16/270 SN OR BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 16, 270°, Box



1799000000	BCZ 3.81/16/270 SN BK BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm², Pitch: 3.81 mm, No. of poles: 16, 270°, Box
1799090000	BCZ 3.81/16/270 SN GN BX	PCB plug-in connector, Female connectors, Clamping yoke connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.81 mm, No. of poles: 16, 270°, Box

