



General ordering data

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| Order No. | 1671430000 |
| Part designation | BLZF 5.08/20/90B SN OR |
| Version | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 20, 90°, Box |
| EAN | 4008190433130 |
| Qty. | 20 pc(s). |

System parameters

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| Conductor connection system | Tension clamp connection |
| Outgoing direction of conductor | 90° |
| Pitch | 5.08 mm |
| Pitch in inch | 0.2 inch |
| No. of poles | 20 |
| No. of rows | 1 |
| Screwdriver blade | 0.6 x 3.5 |
| Screwdriver blade standard | DIN 5264-A |
| Stripping length | 10 mm |
| L1 in mm | 96.52 mm |
| L1 in inch | 3.8 inch |
| Electric shock protection to DIN VDE 0470 | Finger-safe plugged/ back-of-hand-safe unplugged |

System parameters

Material data

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|---------------------------|---------------------|
| 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 |
| Contact surface | tinned |

Connectable conductors

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| Clamping range, min. | 0.13 mm ² |
| Clamping range, max. | 3.31 mm ² |
| AWG, min. | 26 |
| AWG, max. | 12 |
| Solid, min. H05(07) V-U | 0.2 mm ² |
| Solid, max. H05(07) V-U | 2.5 mm ² |
| Flexible, min. H05(07) V-K | 0.2 mm ² |
| Flexible, max. H05(07) V-K | 2.5 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 | 2.8 mm x 2.0 mm; |

DIN IEC rating data

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| Rated current, min. No. pins (Tu=20°C) | 16.5 A |
| Rated current, max. No. pins (Tu=20°C) | 12.5 A |
| Rated current, min. No. pins (Tu=40°C) | 14 A |
| Rated current, max. No. pins (Tu=40°C) | 11 A |
| Rated voltage for overvoltage class/pollution severity II/2 | 400 V |
| Rated voltage for overvoltage class/pollution severity III/2 | 320 V |
| Rated voltage for overvoltage class/pollution severity III/3 | 250 V |
| Rated impulse withstand voltage for overvoltage class/pollution severity II/2 | 4 kV |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/2 | 4 kV |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/3 | 4 kV |
| Short-time withstand current resistance | 3 x 1s with 120 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. | 26 |
| AWG conductor (field wiring), max. | 12 |

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. | 26 |
| AWG conductor, max. | 12 |

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 |
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| 1671250000 | BLZF 5.08/2/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 2, 90°, Box |
| 1671480000 | BLZF 5.08/2/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 2, 90°, Box |
| 1671260000 | BLZF 5.08/3/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 3, 90°, Box |
| 1671490000 | BLZF 5.08/3/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 3, 90°, Box |
| 1671270000 | BLZF 5.08/4/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 4, 90°, Box |
| 1671500000 | BLZF 5.08/4/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 4, 90°, Box |
| 1671280000 | BLZF 5.08/5/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 5, 90°, Box |

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| 1671510000 | BLZF 5.08/5/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 5, 90°, Box |
| 1671290000 | BLZF 5.08/6/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 6, 90°, Box |
| 1671520000 | BLZF 5.08/6/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 6, 90°, Box |
| 1671300000 | BLZF 5.08/7/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 7, 90°, Box |
| 1671530000 | BLZF 5.08/7/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 7, 90°, Box |
| 1671310000 | BLZF 5.08/8/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 8, 90°, Box |
| 1671540000 | BLZF 5.08/8/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 8, 90°, Box |
| 1671320000 | BLZF 5.08/9/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 9, 90°, Box |
| 1671550000 | BLZF 5.08/9/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 9, 90°, Box |
| 1671330000 | BLZF 5.08/10/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 10, 90°, Box |
| 1671560000 | BLZF 5.08/10/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 10, 90°, Box |
| 1671340000 | BLZF 5.08/11/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 11, 90°, Box |
| 1671570000 | BLZF 5.08/11/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 11, 90°, Box |
| 1671350000 | BLZF 5.08/12/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 12, 90°, Box |
| 1671580000 | BLZF 5.08/12/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 12, 90°, Box |
| 1671360000 | BLZF 5.08/13/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 13, 90°, Box |
| 1671590000 | BLZF 5.08/13/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 13, 90°, Box |

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| 1671370000 | BLZF 5.08/14/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 14, 90°, Box |
| 1671600000 | BLZF 5.08/14/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 14, 90°, Box |
| 1671380000 | BLZF 5.08/15/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 15, 90°, Box |
| 1671610000 | BLZF 5.08/15/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 15, 90°, Box |
| 1671390000 | BLZF 5.08/16/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 16, 90°, Box |
| 1671620000 | BLZF 5.08/16/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 16, 90°, Box |
| 1671400000 | BLZF 5.08/17/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 17, 90°, Box |
| 1671630000 | BLZF 5.08/17/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 17, 90°, Box |
| 1671410000 | BLZF 5.08/18/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 18, 90°, Box |
| 1671640000 | BLZF 5.08/18/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 18, 90°, Box |
| 1671420000 | BLZF 5.08/19/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 19, 90°, Box |
| 1671650000 | BLZF 5.08/19/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 19, 90°, Box |
| 1671660000 | BLZF 5.08/20/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 20, 90°, Box |
| 1671440000 | BLZF 5.08/21/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 21, 90°, Box |
| 1671670000 | BLZF 5.08/21/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 21, 90°, Box |
| 1671450000 | BLZF 5.08/22/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 22, 90°, Box |
| 1671680000 | BLZF 5.08/22/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 22, 90°, Box |

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| 1671460000 | BLZF 5.08/23/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 23, 90°, Box |
| 1671690000 | BLZF 5.08/23/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 23, 90°, Box |
| 1671470000 | BLZF 5.08/24/90B SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 24, 90°, Box |
| 1671700000 | BLZF 5.08/24/90B SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 3.31 mm ² , Pitch: 5.08 mm, No. of poles: 24, 90°, Box |