



General ordering data

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| Order No. | 1691090000 |
| Part designation | BLZF 3.5/23/F SN OR |
| Version | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 23, 180°, Box |
| EAN | 4008190329600 |
| Qty. | 20 pc(s). |

System parameters

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| Conductor connection system | Tension clamp connection |
| Outgoing direction of conductor | 180° |
| Pitch | 3.5 mm |
| Pitch in inch | 0.138 inch |
| No. of poles | 23 |
| No. of rows | 1 |
| Screwdriver blade | 0.4 x 2.5 |
| Screwdriver blade standard | DIN 5264-A |
| Stripping length | 10 mm |
| L1 in mm | 77 mm |
| L1 in inch | 3.031 inch |
| Electric shock protection to DIN VDE 0470 | IP 20 |
| Electric shock protection to DIN VDE 0470 | Safe from finger touch |

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. | 1.5 mm ² |
| AWG, min. | 28 |
| AWG, max. | 16 |
| Outer diameter of insulation, max. | 2.9 mm |
| 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 mm ² |
| Gauge to EN 60999 a x b; ø | 2.4 mm x 1.5 mm; |

DIN IEC rating data

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| Rated current, min. No. pins (Tu=20°C) | 14.5 A |
| Rated current, max. No. pins (Tu=20°C) | 10 A |
| Rated current, min. No. pins (Tu=40°C) | 12 A |
| Rated current, max. No. pins (Tu=40°C) | 8 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 100 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. | 14 |

CSA rating data

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. | 14 |

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 |
|------------|--------------------|--|
| 1690880000 | BLZF 3.5/2/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 2, 180°, Box |
| 1691110000 | BLZF 3.5/2/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 2, 180°, Box |
| 1690890000 | BLZF 3.5/3/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 3, 180°, Box |
| 1691120000 | BLZF 3.5/3/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 3, 180°, Box |
| 1690900000 | BLZF 3.5/4/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 4, 180°, Box |
| 1691130000 | BLZF 3.5/4/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 4, 180°, Box |
| 1690910000 | BLZF 3.5/5/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 5, 180°, Box |
| 1691140000 | BLZF 3.5/5/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 5, 180°, Box |

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| 1690920000 | BLZF 3.5/6/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 6, 180°, Box |
| 1691150000 | BLZF 3.5/6/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 6, 180°, Box |
| 1690930000 | BLZF 3.5/7/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 7, 180°, Box |
| 1691160000 | BLZF 3.5/7/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 7, 180°, Box |
| 1690940000 | BLZF 3.5/8/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 8, 180°, Box |
| 1691170000 | BLZF 3.5/8/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 8, 180°, Box |
| 1690950000 | BLZF 3.5/9/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 9, 180°, Box |
| 1691180000 | BLZF 3.5/9/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 9, 180°, Box |
| 1690960000 | BLZF 3.5/10/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 10, 180°, Box |
| 1691190000 | BLZF 3.5/10/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 10, 180°, Box |
| 1690970000 | BLZF 3.5/11/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 11, 180°, Box |
| 1691200000 | BLZF 3.5/11/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 11, 180°, Box |
| 1690980000 | BLZF 3.5/12/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 12, 180°, Box |
| 1691210000 | BLZF 3.5/12/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 12, 180°, Box |
| 1690990000 | BLZF 3.5/13/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 13, 180°, Box |
| 1691220000 | BLZF 3.5/13/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 13, 180°, Box |
| 1691000000 | BLZF 3.5/14/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 14, 180°, Box |

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| 1691230000 | BLZF 3.5/14/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 14, 180°, Box |
| 1691010000 | BLZF 3.5/15/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 15, 180°, Box |
| 1691240000 | BLZF 3.5/15/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 15, 180°, Box |
| 1691020000 | BLZF 3.5/16/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 16, 180°, Box |
| 1691250000 | BLZF 3.5/16/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 16, 180°, Box |
| 1691030000 | BLZF 3.5/17/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 17, 180°, Box |
| 1691260000 | BLZF 3.5/17/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 17, 180°, Box |
| 1691040000 | BLZF 3.5/18/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 18, 180°, Box |
| 1691270000 | BLZF 3.5/18/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 18, 180°, Box |
| 1691050000 | BLZF 3.5/19/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 19, 180°, Box |
| 1691280000 | BLZF 3.5/19/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 19, 180°, Box |
| 1691060000 | BLZF 3.5/20/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 20, 180°, Box |
| 1691290000 | BLZF 3.5/20/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 20, 180°, Box |
| 1691070000 | BLZF 3.5/21/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 21, 180°, Box |
| 1691300000 | BLZF 3.5/21/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 21, 180°, Box |
| 1691080000 | BLZF 3.5/22/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 22, 180°, Box |
| 1691310000 | BLZF 3.5/22/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 22, 180°, Box |

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| 1691320000 | BLZF 3.5/23/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 23, 180°, Box |
| 1691100000 | BLZF 3.5/24/F SN OR | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 24, 180°, Box |
| 1691330000 | BLZF 3.5/24/F SN SW | PCB plug-in connector, Female connectors, Tension clamp connection, Clamping range, max.: 1.5 mm ² , Pitch: 3.50 mm, No. of poles: 24, 180°, Box |