# Feed-through terminal block - BT 1,25 - 3281122

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Feed-through terminal block, nom. voltage: 690 V, nominal current: 17.5 A, connection method: Ring cable lug, number of connections: 2, cross section: 0.2 mm² - 1.5 mm², width: 7 mm, color: black, mounting type: NS 35/7,5, NS 35/15

## Your advantages

- Convenient ring cable lug connection thanks to the screw connection principle with spring-guided screw; maintenance-free with integrated screw locking
- Easy potential distribution with time-saving jumper system
- Safety for users thanks to integrated shock protection
- Maximum overview thanks to extensive marking and labeling of every terminal point
- Reduction in logistics costs with the uniform CLIPLINE complete system accessories
- Flexible use, thanks to DIN rail and direct mounting

RoHS

## Key Commercial Data

| | |
|---|---|
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| GTIN | 4 055626 118093 |
| GTIN | 4055626118093 |

## Technical data

### General

| | |
|---|---|
| Number of levels | 1 |
| Number of connections | 2 |
| Potentials | 1 |
| Nominal cross section | 1.5 mm² |
| Color | black |
| Insulating material | PC |
| Flammability rating according to UL 94 | V0 |
| Rated surge voltage | 6 kV |
| Degree of pollution | 3 |

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## Technical data

### General

| | |
|---|---|
| Overvoltage category | III |
| Insulating material group | IIIa |
| Maximum power dissipation for nominal condition | 0.56 W |
| Ambient temperature (operation) | -40 °C ... 110 °C |
| Maximum load current | 17.5 A |
| Nominal current $I_N$ | 17.5 A |
| Nominal voltage $U_N$ | 690 V |
| Open side panel | Yes |
| Shock protection test specification | DIN EN 50274 (VDE 0660-514):2002-11 |
| Back of the hand protection | guaranteed |
| Finger protection | guaranteed |
| Result of surge voltage test | Test passed |
| Surge voltage test setpoint | 7.3 kV |
| Result of power-frequency withstand voltage test | Test passed |
| Power frequency withstand voltage setpoint | 1.89 kV |
| Result of the test for mechanical stability of terminal points (5 x conductor connection) | Test passed |
| Result of bending test | Test passed |
| Bending test rotation speed | 10 rpm |
| Bending test turns | 135 |
| Bending test conductor cross section/weight | 1.5 mm² / 0.4 kg |
| Tensile test result | Test passed |
| Conductor cross section tensile test | 1.5 mm² |
| Tractive force setpoint | 40 N |
| Conductor cross section tensile test | 1.25 mm² |
| Tractive force setpoint | 40 N |
| Result of tight fit on support | Test passed |
| Tight fit on carrier | NS 35 |
| Setpoint | 1 N |
| Result of voltage-drop test | Test passed |
| Requirements, voltage drop | ≤ 3.2 mV |
| Result of temperature-rise test | Test passed |
| Short circuit stability result | Test passed |
| Conductor cross section short circuit testing | 1.5 mm² |
| Short-time current | 0.18 kA |
| Conductor cross section short circuit testing | 1.25 mm² |
| Short-time current | 0.15 kA |
| Result of thermal test | Test passed |
| Proof of thermal characteristics (needle flame) effective duration | 30 s |
| Oscillation, broadband noise test result | Test passed |
| Test specification, oscillation, broadband noise | DIN EN 50155 (VDE 0115-200):2008-03 |

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## Technical data

### General

| | |
|---|---|
| Test spectrum | Service life test category 2, bogie-mounted |
| Test frequency | $f_1$ = 5 Hz to $f_2$ = 250 Hz |
| ASD level | 6.12 $(m/s^2)^2/Hz$ |
| Acceleration | 3.12 g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Shock test result | Test passed |
| Test specification, shock test | DIN EN 50155 (VDE 0115-200):2008-03 |
| Shock form | Half-sine |
| Acceleration | 30g |
| Shock duration | 18 ms |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C |

### Dimensions

| | |
|---|---|
| Width | 7 mm |
| Length | 42 mm |
| Height NS 35/7,5 | 33.5 mm |
| Height NS 35/15 | 41 mm |

### Connection data

| | |
|---|---|
| Connection method | Ring cable lug |
| Screw thread | M3 |
| Tightening torque, min | 0.6 Nm |
| Tightening torque max | 1 Nm |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section solid min. | 0.2 mm² |
| Conductor cross section solid max. | 1.5 mm² |
| Conductor cross section flexible min. | 0.14 mm² |
| Conductor cross section flexible max. | 1.5 mm² |
| Min. AWG conductor cross section, flexible | 26 |
| Max. AWG conductor cross section, flexible | 16 |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.2 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 1.5 mm² |
| Cable lug connection according to standard | DIN 46234 |
| Min. cross section for cable lug connection | 0.14 mm² |
| Max. cross section for cable lug connection | 1.5 mm² |
| AWG min | 26 |
| AWG max | 16 |
| Hole diameter, min. | 3.2 mm |
| Cable lug width, max. | 5.8 mm |

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## Technical data

### Connection data

| | |
|---|---|
| Bolt diameter | 3 mm |
| Screw thread | M3 |
| Tightening torque, min | 0.6 Nm |
| Tightening torque max | 1 Nm |

### Connection data (JIS standard)

| | |
|---|---|
| Connection method | Ring cable lug |
| Connection in acc. with standard | JIS 8207-7-1 |
| Single-wire/terminal point, solid diameter min. | 0.5 mm |
| Single-wire/terminal point, solid diameter max. | 1.2 mm |
| Conductor cross section flexible min. | 0.5 mm² |
| Conductor cross section flexible max. | 1.25 mm² |
| Cable lug connection according to standard | JIS 8207-7-1 |
| Min. cross section for cable lug connection | 0.5 mm² |
| Max. cross section for cable lug connection | 1.25 mm² |
| Hole diameter, min. | 3.2 mm |
| Cable lug width, max. | 5.8 mm |
| Bolt diameter | 3 mm |
| Screw thread | M3 |
| Tightening torque, min | 0.6 Nm |
| Tightening torque max | 1 Nm |
| Nominal current $I_N$ | 16 A |
| Maximum load current | 16 A |
| Nominal voltage $U_N$ | 600 V |

### Standards and Regulations

| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V0 |

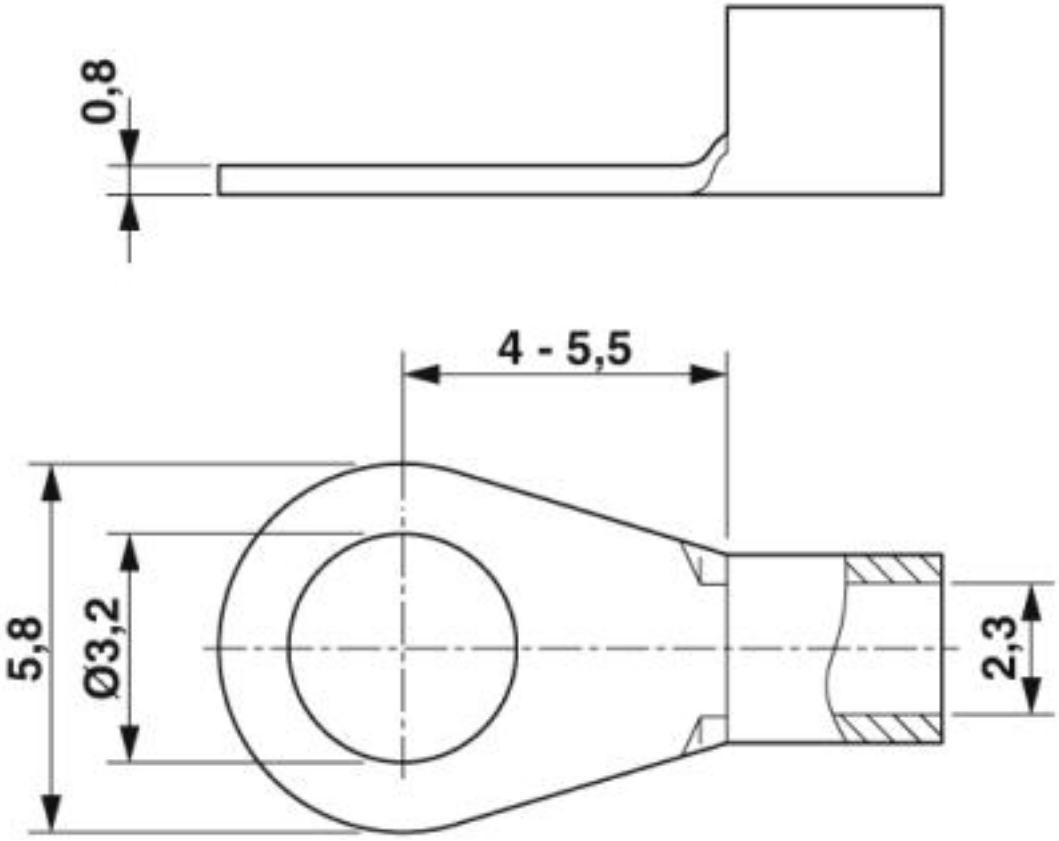
### Environmental Product Compliance

| | |
|---|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

## Drawings

# Feed-through terminal block - BT 1,25 - 3281122

Dimensional drawing



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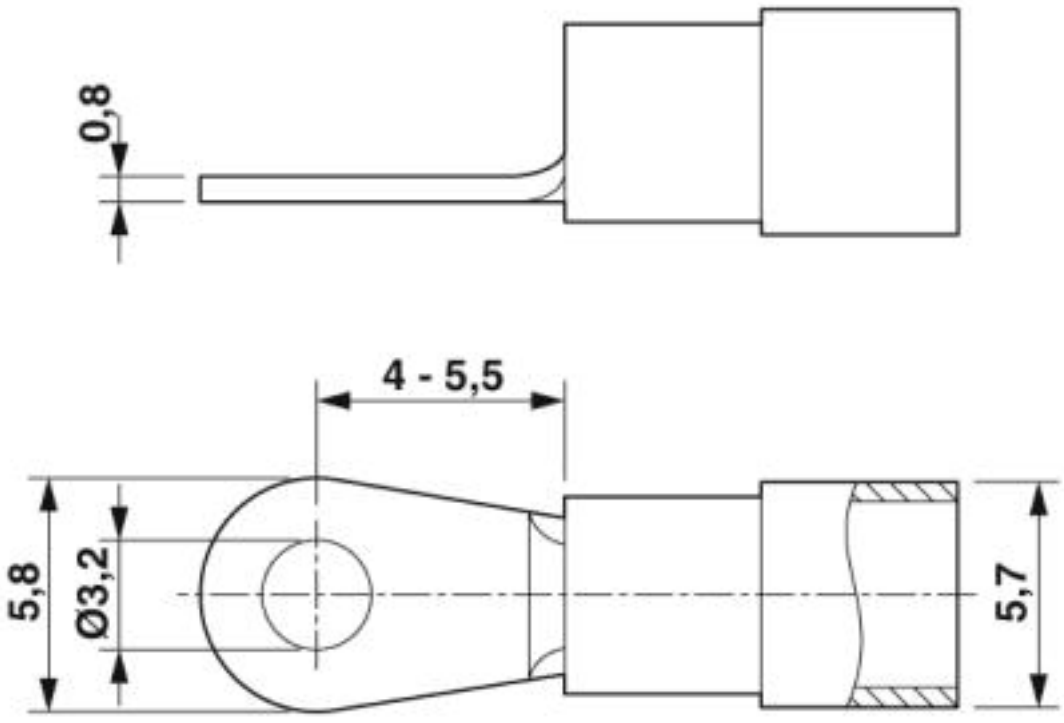
Dimensional drawing




Circuit diagram

## Approvals

### Approvals

Approvals

DNV GL / CSA / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

### Approval details

| | | | |
|---|---|---|---|
| DNV GL | | https://approvalfinder.dnvgl.com/ | TAE00001S2 |

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## Approvals

| CSA | | http://www.csagroup.org/services-industries/product-listing/ | 13631 |
|---|---|---|---|

| | B | C |
|---|---|---|
| Nominal voltage UN | 600 V | 600 V |
| Nominal current IN | 10 A | 10 A |
| mm²/AWG/kcmil | 26-16 | 26-16 |

| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
|---|---|---|---|

| | B | C |
|---|---|---|
| Nominal voltage UN | 600 V | 600 V |
| Nominal current IN | 10 A | 10 A |
| mm²/AWG/kcmil | 26-16 | 26-16 |

| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
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| | B | C |
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| Nominal voltage UN | 600 V | 600 V |
| Nominal current IN | 10 A | 10 A |
| mm²/AWG/kcmil | 26-16 | 26-16 |

| cULus Recognized | |
|---|---|



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