

## Feed-through terminal block - ST 35 BU - 3036181

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Feed-through terminal block, Connection method: Spring-cage connection, Cross section: 2.5 mm<sup>2</sup> - 35 mm<sup>2</sup>, AWG: 14 - 2, Width: 16 mm, Color: blue, Mounting type: NS 35/7,5, NS 35/15

### Product Features

- The flexible options for reducing bridging in the CLIPLINE complete system can be found in "Accessories for the CLIPLINE complete modular terminal block system"
- The double bridge shaft not only enables individual chain bridging, but also reducing bridging to spring-cage terminal blocks with smaller cross sections



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 87.33 g  |
| Custom tariff number                 | 85369010 |
| Country of origin                    | Poland   |

### Technical data

#### General

|  |                    |
|--|--------------------|
| Number of levels                       | 1                  |
| Number of connections                  | 2                  |
| Nominal cross section                  | 35 mm <sup>2</sup> |
| Color                                  | blue               |
| Insulating material                    | PA                 |
| Flammability rating according to UL 94 | V0                 |
| Rated surge voltage                    | 8 kV               |
| Degree of pollution                    | 3                  |
| Overvoltage category                   | III                |
| Insulating material group              | I                  |

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## Technical data

### General

|   |   |
|---|---|
| Connection in acc. with standard  | IEC 60947-7-1   |
| Maximum load current  | 125 A (with 35 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>  | 125 A   |
| Nominal voltage U <sub>N</sub>  | 1000 V  |
| Open side panel   | No  |
| Shock protection test specification   | DIN EN 50274 (VDE 0660-514):2002-11                     |
| Back of the hand protection   | guaranteed  |
| Result of surge voltage test  | Test passed   |
| Surge voltage test setpoint   | 9.8 kV  |
| Result of power-frequency withstand voltage test  | Test passed   |
| Power frequency withstand voltage setpoint  | 2.2 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   | 2.5 mm <sup>2</sup> / 0.7 kg                            |
|   | 35 mm <sup>2</sup> / 6.8 kg                             |
| Tensile test result   | Test passed   |
| Conductor cross section tensile test  | 2.5 mm <sup>2</sup>                                     |
| Tractive force setpoint   | 50 N  |
| Conductor cross section tensile test  | 35 mm <sup>2</sup>                                      |
| Tractive force setpoint   | 190 N   |
| Result of tight fit on support  | Test passed   |
| Tight fit on carrier  | NS 35   |
| Setpoint  | 10 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   | 35 mm <sup>2</sup>                                      |
| Short-time current  | 4.2 kA  |
| Result of aging test  | Test passed   |
| Ageing test for screwless modular terminal block temperature cycles                       | 192   |
| Result of thermal test  | Test passed   |
| Proof of thermal characteristics (needle flame) effective duration                        | 30 s  |
| Oscillation, broadband noise test result  | Test passed   |

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## Technical data

### General

|   |  |
|---|--|
| Test specification, oscillation, broadband noise                        | DIN EN 50155 (VDE 0115-200):2008-03            |
| Test spectrum   | Service life test category 2, bogie mounted    |
| Test frequency  | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level   | $6.12 \text{ (m/s}^2\text{)}^2/\text{Hz}$      |
| 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  |
| Number of shocks per direction  | 3  |
| Test directions   | X-, Y- and Z-axis (pos. and neg.)              |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C   |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C   |
| Static insulating material application in cold                          | -60 °C   |

### Dimensions

|                  |         |
|------------------|---------|
| Width            | 16 mm   |
| Length           | 100 mm  |
| Height NS 35/7,5 | 59 mm   |
| Height NS 35/15  | 66.5 mm |

### Connection data

|  |   |
|--|---|
| Connection method                          | Spring-cage connection  |
| Connection in acc. with standard           | IEC 60947-7-1   |
| Note                                       | The supply from the ST 35 terminal block to the ST 16 TWIN terminal block with the RB-ST 35 reducing bridge is single-sided only.<br>In the case of a central supply, the D-ST 16-TWIN cover cannot be bridged via the reducing bridge. |
| Conductor cross section solid min.         | 2.5 mm <sup>2</sup>   |
| Conductor cross section solid max.         | 35 mm <sup>2</sup>  |
| Conductor cross section AWG min.           | 14  |
| Conductor cross section AWG max.           | 2   |
| Conductor cross section flexible min.      | 2.5 mm <sup>2</sup>   |
| Conductor cross section flexible max.      | 35 mm <sup>2</sup>  |
| Min. AWG conductor cross section, flexible | 14  |
| Max. AWG conductor cross section, flexible | 2   |

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## Technical data

### Connection data

|   |                     |
|---|---------------------|
| Conductor cross section flexible, with ferrule without plastic sleeve min.              | 2.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.              | 35 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                 | 2.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 35 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 2.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 10 mm <sup>2</sup>  |
| Connection in acc. with standard  | IEC/EN 60079-7      |
| Conductor cross section solid min.  | 2.5 mm <sup>2</sup> |
| Conductor cross section solid max.  | 35 mm <sup>2</sup>  |
| Conductor cross section AWG min.  | 14                  |
| Conductor cross section AWG max.  | 2                   |
| Conductor cross section flexible min.   | 2.5 mm <sup>2</sup> |
| Conductor cross section flexible max.   | 35 mm <sup>2</sup>  |
| Stripping length  | 25 mm               |
| Internal cylindrical gage   | A8                  |

### Standards and Regulations

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

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141121 |
| eCl@ss 4.1 | 27141121 |
| eCl@ss 5.0 | 27141120 |
| eCl@ss 5.1 | 27141120 |
| eCl@ss 6.0 | 27141120 |
| eCl@ss 7.0 | 27141120 |
| eCl@ss 8.0 | 27141120 |
| eCl@ss 9.0 | 27141120 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC000897 |
|----------|----------|

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |

## Approvals

### Approvals

#### Approvals


CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / LR / GL / BV / KR / NK / IECCEB Scheme / EAC / EAC / cULus Recognized


#### Ex Approvals

IECEX / ATEX / EAC Ex

#### Approvals submitted

## Approval details


|   |       |       |
|---|-------|-------|
| CSA  |       |       |
|   | B     | C     |
| mm <sup>2</sup> /AWG/kcmil  | 14-2  | 14-2  |
| Nominal current I <sub>N</sub>  | 115 A | 115 A |
| Nominal voltage U <sub>N</sub>  | 600 V | 600 V |

|   |      |      |
|---|------|------|
| UL Recognized  |      |      |
|   | B    | C    |
| mm <sup>2</sup> /AWG/kcmil  | 14-2 | 14-2 |


# Feed-through terminal block - ST 35 BU - 3036181

## Approvals

|                                | B     | C     |
|--------------------------------|-------|-------|
| Nominal current I <sub>N</sub> | 115 A | 115 A |
| Nominal voltage U <sub>N</sub> | 600 V | 600 V |

VDE Gutachten mit Fertigungsüberwachung 

|                                |        |
|--------------------------------|--------|
| mm <sup>2</sup> /AWG/kcmil     | 2.5-35 |
| Nominal current I <sub>N</sub> | 125 A  |
| Nominal voltage U <sub>N</sub> | 1000 V |

cUL Recognized 

|                                | B     | C     |
|--------------------------------|-------|-------|
| mm <sup>2</sup> /AWG/kcmil     | 14-2  | 14-2  |
| Nominal current I <sub>N</sub> | 115 A | 115 A |
| Nominal voltage U <sub>N</sub> | 600 V | 600 V |


LR

GL

BV

KR

NK

IECEE CB Scheme 

|                                |        |
|--------------------------------|--------|
| mm <sup>2</sup> /AWG/kcmil     | 35     |
| Nominal voltage U <sub>N</sub> | 1000 V |

EAC

## Feed-through terminal block - ST 35 BU - 3036181

### Approvals

EAC

cULus Recognized 

### Drawings

Circuit diagram

