

## High Current Connectors - UKH 150 BU - 3010123

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High Current Connectors, Connection method: Screw connection, Cross section: 35 mm<sup>2</sup> - 150 mm<sup>2</sup>, AWG: 2 - 300 kcmil, Width: 31 mm, Height: 107.3 mm, Color: blue, Mounting type: NS 35/15, NS 32

### Why buy this product

- ✓ Reliable cable connection is ensured by three-point centering of the conductor in the prismatic sleeve base
- ✓ Low contact resistance of the contact surface due to ribbing
- ✓ Screw locking by means of spring-loaded elements in the clamping part



### Key commercial data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 10 pc   |
| GTIN                                 | <br>4 017918 091859 |
| Weight per Piece (excluding packing) | 363.98 g  |
| Weight per piece (including packing) | 363.98 g  |
| Custom tariff number                 | 85369010  |
| Country of origin                    | Poland  |
| Sales Key                            | A1 - Terminal Strips  |

### Technical data

#### General

|   |  |
|---|--|
| Number of levels                        | 1  |
| Number of connections                   | 2  |
| Color                                   | blue   |
| Insulating material                     | PA   |
| Inflammability class according to UL 94 | V0   |
| Maximum load current                    | 309 A (with 150 mm <sup>2</sup> conductor cross section) |
| Rated surge voltage                     | 8 kV   |
| Pollution degree                        | 3  |
| Surge voltage category                  | III  |

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## Technical data

### General

|                                  |               |
|----------------------------------|---------------|
| Insulating material group        | I             |
| Connection in acc. with standard | IEC 60947-7-1 |
| Nominal current $I_N$            | 309 A         |
| Nominal voltage $U_N$            | 1000 V        |
| Open side panel                  | nein          |

### Dimensions

|                 |          |
|-----------------|----------|
| Width           | 31 mm    |
| Length          | 100 mm   |
| Height          | 107.3 mm |
| Height NS 35/15 | 118.5 mm |
| Height NS 32    | 116 mm   |

### Connection data

|   |  |
|---|--|
| Note  | Screws with hexagonal socket   |
| Connection in acc. with standard  | IEC 60947-7-1  |
| Connection method   | Screw connection   |
| Note  | Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area. |
| Conductor cross section solid min.  | 35 mm <sup>2</sup>   |
| Conductor cross section solid max.  | 150 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.  | 2  |
| Conductor cross section AWG/kcmil max.  | 300 kcmil  |
| Conductor cross section stranded min.   | 50 mm <sup>2</sup>   |
| Conductor cross section stranded max.   | 150 mm <sup>2</sup>  |
| Min. AWG conductor cross section, stranded  | 1/0  |
| Max. AWG conductor cross section, stranded  | 300 kcmil  |
| Conductor cross section stranded, with ferrule without plastic sleeve min.            | 50 mm <sup>2</sup>   |
| Conductor cross section stranded, with ferrule without plastic sleeve max.            | 150 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule with plastic sleeve min.               | 50 mm <sup>2</sup>   |
| Conductor cross section stranded, with ferrule with plastic sleeve max.               | 150 mm <sup>2</sup>  |
| Cross section with insertion bridge, solid max.                                       | 150 mm <sup>2</sup>  |
| Cross section with insertion bridge, stranded max.                                    | 120 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid min.                                      | 25 mm <sup>2</sup>   |
| 2 conductors with same cross section, solid max.                                      | 50 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded min.                                   | 35 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded max.                                   | 50 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 25 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 50 mm <sup>2</sup>   |

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## Technical data

### Connection data

|  |                     |
|--|---------------------|
| Cross section with insertion bridge, solid max.    | 150 mm <sup>2</sup> |
| Cross section with insertion bridge, stranded max. | 120 mm <sup>2</sup> |
| Stripping length                                   | 40 mm               |
| Screw thread                                       | M10                 |
| Tightening torque, min                             | 25 Nm               |
| Tightening torque max                              | 30 Nm               |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141120 |
| eCl@ss 4.1 | 27141120 |
| 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 |

### ETIM

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

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#### Approvals

CSA / UL Recognized / DNV / RS / PRS

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#### Ex Approvals

IECEX / ATEX / FM approved / UL Recognized / cUL Recognized / cULus Recognized

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## Approvals

Approvals submitted

### Approval details

|                                |       |       |
|--------------------------------|-------|-------|
| CSA                            |       |       |
|                                | B     | C     |
| mm <sup>2</sup> /AWG/kcmil     | 2-300 | 2-300 |
| Nominal current I <sub>N</sub> | 275 A | 275 A |
| Nominal voltage U <sub>N</sub> | 600 V | 600 V |

|                                |       |       |
|--------------------------------|-------|-------|
| UL Recognized                  |       |       |
|                                | B     | C     |
| mm <sup>2</sup> /AWG/kcmil     | 2-300 | 2-300 |
| Nominal current I <sub>N</sub> | 285 A | 285 A |
| Nominal voltage U <sub>N</sub> | 600 V | 600 V |

DNV

RS

PRS

## Accessories

Accessories

Bridge

Insertion bridge - EB 3-31/UKH - 0201391



Insertion bridge, Number of positions: 3, Color: gray

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### Accessories

Insertion bridge - EB 2-31/UKH - 0201388



Insertion bridge, Number of positions: 2, Color: gray

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### End block

End clamp - E/AL-NS 32 - 1201659



End clamp, for end support of UKH 50 - UKH 240, is pushed onto DIN rail NS 32 and fixed with 2 screws, width: 10 mm, color: Aluminum

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End clamp - E/AL-NS 35 - 1201662



End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

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### Labeled terminal marker

Warning label - WS-2K - 1004513



Adhesive warning plate, self-adhesive, black print: lightning flash with mixed version - "Vorsicht Spannung - Attention Danger" size of label: 32 x 26 mm

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Zack marker strip - ZB 22 CUS - 0824949



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 22 mm, Lettering field: 10.5 x 21.8 mm

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### Accessories

Marker for terminal blocks - ZB 22,LGS:L1-N,PE - 0811875



Marker for terminal blocks, Strip, white, labeled, Printed horizontally: L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 22 mm, Lettering field: 10.5 x 21.8 mm

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### Mounting material

Insertion profile - UKH 150/240 EP - 3009244



Insertion profile, Color: silver

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### Mounting rail

DIN rail perforated - NS 32 PERF 2000MM - 1201002



G-profile DIN rail, material: Steel, perforated, height 15 mm, width 32 mm, length 2 m

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DIN rail, unperforated - NS 32 UNPERF 2000MM - 1201015



G-profile DIN rail, material: Steel, unperforated, height 15 mm, width 32 mm, length 2 m

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DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

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### Accessories

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

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DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602



DIN rail 35 mm (NS 35)

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DIN rail - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail 35 mm (NS 35)

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DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

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DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m

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### Accessories

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m

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DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

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End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

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### Pick-off terminal block

Pick-off terminal block - AGK 10-UKH 150/240 - 3003554



Pick-off terminal block, Connection method: Special and hybrid connection, Cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, Width: 10.2 mm, Height: 34.7 mm, Color: gray, Mounting type: On base element

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### Terminal marking

Zack marker strip - ZB 22:UNBEDRUCKT - 0811862



Zack marker strip, Strip, white, Unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 22 mm, Lettering field: 10.5 x 21.8 mm

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### Drawings

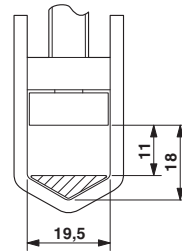


## High Current Connectors - UKH 150 BU - 3010123

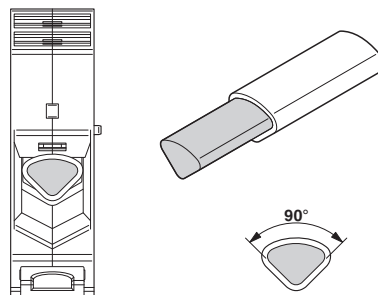
Circuit diagram



Dimensioned drawing



Schematic diagram



Connecting aluminum cables. Further notes can be found in the download area