

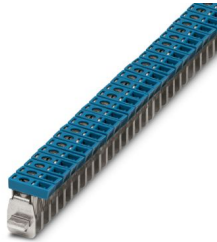
# AKG 16 BU - Connection terminal block



0423014

<https://www.phoenixcontact.com/pc/products/0423014>

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Connection terminal block, nominal current: 76 A, connection method: Screw connection, Rated cross section: 16 mm<sup>2</sup>, cross section: 1.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, mounting: Neutral busbar, color: blue

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 0423014             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Product key                          | BE7331              |
| Catalog page                         | Page 555 (C-3-2019) |
| GTIN                                 | 4017918001995       |
| Weight per piece (including packing) | 10.574 g            |
| Weight per piece (excluding packing) | 10.426 g            |
| Customs tariff number                | 85369010            |
| Country of origin                    | IN                  |

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | Installation terminal block |
| Number of positions   | 1.00                        |
| Number of connections | 1                           |
| Number of rows        | 1                           |

### Electrical properties

|   |  |
|---|--|
| Maximum load current                            | 76 A (with 16 mm <sup>2</sup> conductor cross section) |
| Maximum power dissipation for nominal condition | 2.43 W   |
| Nominal current I <sub>N</sub>                  | 76 A   |
| Current carrying capacity of the neutral busbar | 140 A  |

### Connection data

|                       |  |
|-----------------------|--|
| Nominal cross section | 16 mm <sup>2</sup>                                     |
| Maximum load current  | 76 A (with 16 mm <sup>2</sup> conductor cross section) |

#### Level 1 above 1 below 1

|   |  |
|---|--|
| Screw thread  | M5   |
| Tightening torque   | 2.5 ... 3 Nm   |
| Stripping length  | 16 mm  |
| Internal cylindrical gage   | B6   |
| Conductor cross section rigid   | 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>             |
| Cross section AWG   | 14 ... 6 (converted acc. to IEC)                       |
| Conductor cross section flexible  | 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>             |
| Conductor cross section, flexible [AWG]   | 14 ... 6 (converted acc. to IEC)                       |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>             |
| Flexible conductor cross section (ferrule with plastic sleeve)                            | 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>             |
| 2 conductors with same cross section, solid   | 1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>              |
| 2 conductors with same cross section, flexible  | 1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>              |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>              |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>             |
| Nominal current   | 76 A   |
| Maximum load current  | 76 A (with 16 mm <sup>2</sup> conductor cross section) |
| Nominal cross section   | 16 mm <sup>2</sup>                                     |

### Dimensions

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|                     |         |
|---------------------|---------|
| Dimensional drawing |         |
| Width               | 9.8 mm  |
| Height              | 23.4 mm |
| Depth               | 32 mm   |
| Length              | 23.5 mm |

## Material specifications

|   |        |
|---|--------|
| Color   | blue   |
| Flammability rating according to UL 94                                  | V2     |
| Insulating material   | PA     |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C |
| Relative insulation material temperature index (Elec., UL 746 B)        | 125 °C |

## Electrical tests

### Temperature-rise test

|   |                                     |
|---|-------------------------------------|
| Requirement temperature-rise test               | Increase in temperature $\leq$ 45 K |
| Result  | Test passed                         |
| Short-time withstand current 16 mm <sup>2</sup> | 1.92 kA                             |
| Result  | Test passed                         |

## Mechanical tests

### Mechanical strength

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

### Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 rpm                       |
| Revolutions                    | 135                          |
| Conductor cross section/weight | 1.5 mm <sup>2</sup> / 0.4 kg |
|                                | 16 mm <sup>2</sup> / 2.9 kg  |
| Result                         | Test passed                  |

## Environmental and real-life conditions

### Ambient conditions

|                                 |  |
|---------------------------------|--|
| Ambient temperature (operation) | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
|---------------------------------|--|

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|  |   |
|--|---|
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly)           | -5 °C ... 70 °C   |
| Ambient temperature (actuation)          | -5 °C ... 70 °C   |
| Permissible humidity (operation)         | 20 % ... 90 %   |
| Permissible humidity (storage/transport) | 30 % ... 70 %   |

## Mounting

|               |                |
|---------------|----------------|
| Mounting type | Neutral busbar |
|---------------|----------------|

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## Drawings

### Circuit diagram



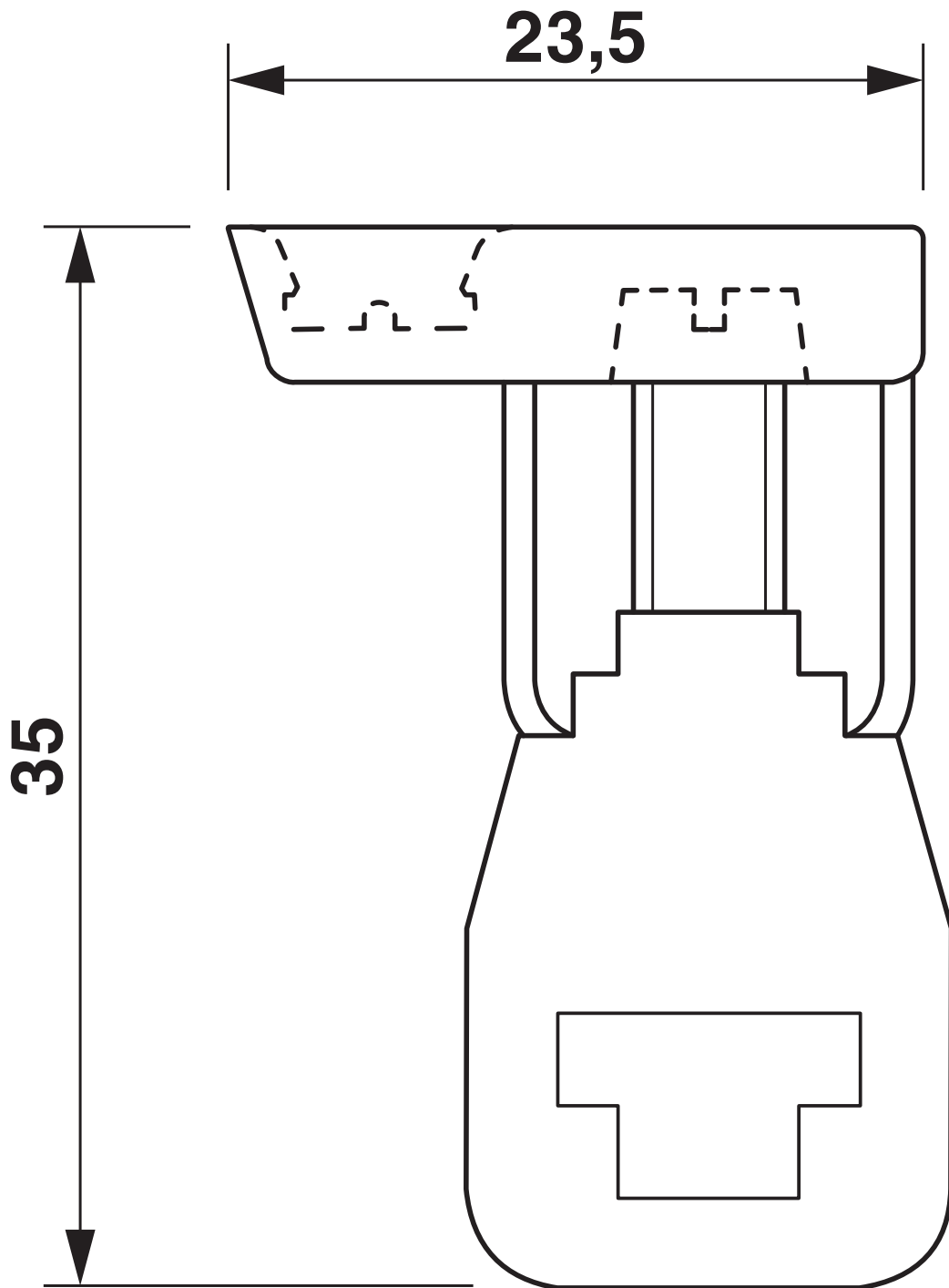
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Dimensional drawing

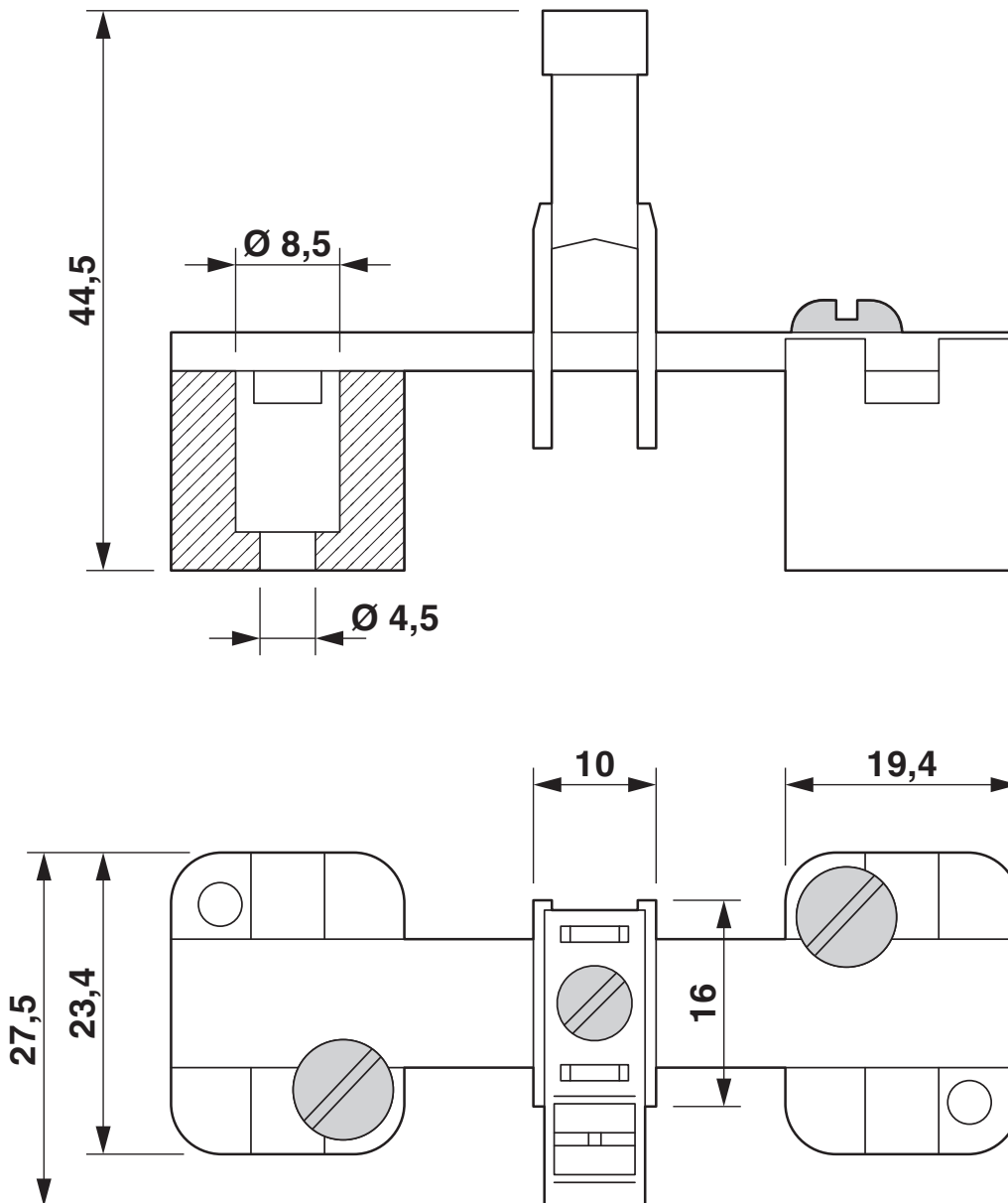


# AKG 16 BU - Connection terminal block

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Dimensional drawing



# AKG 16 BU - Connection terminal block





0423014

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/0423014>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | -                     | 65 A                  | 18 - 6            | -                           |

|  <b>UL Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B   | -                     | 65 A                  | 18 - 6            | -                           |
| Use group C   | -                     | 65 A                  | 18 - 6            | -                           |
| Use group F   | -                     | 65 A                  | 18 - 6            | -                           |

|  <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00534 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141146 |
| ECLASS-12.0 | 27141146 |
| ECLASS-13.0 | 27250116 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000001 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 31162900 |
|-------------|----------|

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## Environmental product compliance


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

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0423014

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## Accessories

 Note: Applying some accessories below might limit this product.


### NLS-CU 3/10 SN 1000MM - Neutral busbar

0402174

<https://www.phoenixcontact.com/pc/products/0402174>



Neutral busbar, DIN VDE 0611-4: 1991-02, material: Copper, tin-plated, color: silver

 Max. current carrying capacity: 140 A

### ZB 6:UNBEDRUCKT - Zack marker strip

1051003

<https://www.phoenixcontact.com/pc/products/1051003>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

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0423014

<https://www.phoenixcontact.com/pc/products/0423014>

## ZB 6 CUS - Zack marker strip

0824992

<https://www.phoenixcontact.com/pc/products/0824992>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

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## ZB 6,LGS:FORTL.ZAHLEN - Zack marker strip

1051016

<https://www.phoenixcontact.com/pc/products/1051016>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

# AKG 16 BU - Connection terminal block



0423014

<https://www.phoenixcontact.com/pc/products/0423014>

## ZB 6,QR:FORTL.ZAHLEN - Zack marker strip

1051029

<https://www.phoenixcontact.com/pc/products/1051029>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

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## ZB 6,LGS:GLEICHE ZAHLEN - Zack marker strip

1051032

<https://www.phoenixcontact.com/pc/products/1051032>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: Identical numbers 1 or 2, etc. up to 100, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

# AKG 16 BU - Connection terminal block



0423014

<https://www.phoenixcontact.com/pc/products/0423014>

## ZB 6,LGS:L1-N,PE - Marker for terminal blocks

1051414

<https://www.phoenixcontact.com/pc/products/1051414>



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

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## ZB 6,LGS:U-N - Marker for terminal blocks

1051430

<https://www.phoenixcontact.com/pc/products/1051430>



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: U, V, W, N, GND, U, V, W, N, GND, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

# AKG 16 BU - Connection terminal block



0423014

<https://www.phoenixcontact.com/pc/products/0423014>

## UC-TM 6 - Marker for terminal blocks

0818085

<https://www.phoenixcontact.com/pc/products/0818085>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

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## UC-TM 6 CUS - Marker for terminal blocks

0824589

<https://www.phoenixcontact.com/pc/products/0824589>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

# AKG 16 BU - Connection terminal block



0423014

<https://www.phoenixcontact.com/pc/products/0423014>

## UCT-TM 6 - Marker for terminal blocks

0828736

<https://www.phoenixcontact.com/pc/products/0828736>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

## UCT-TM 6 CUS - Marker for terminal blocks

0829602

<https://www.phoenixcontact.com/pc/products/0829602>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60



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## SZS 1,0X4,0 VDE - Screwdriver

1205066

<https://www.phoenixcontact.com/pc/products/1205066>



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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