

# UKH 50-3L/N - High-current terminal block



3076635

<https://www.phoenixcontact.com/za/products/3076635>

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High-current terminal block, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 8, number of positions: 4, connection method: Screw connection, Rated cross section: 50 mm<sup>2</sup>, cross section: 16 mm<sup>2</sup> - 70 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, NS 35/15-2,3, color: gray/blue

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 3076635                        |
| Packing unit                         | 2 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BE1                            |
| Product key                          | BE1311                         |
| Catalog page                         | Page 257 (C-1-2017)            |
| GTIN                                 | 4046356707091                  |
| Weight per piece (including packing) | 480,1 g                        |
| Weight per piece (excluding packing) | 441,503 g                      |
| Customs tariff number                | 85369010                       |
| Country of origin                    | PL                             |

# UKH 50-3L/N - High-current terminal block



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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | High current terminal block |
| Number of positions   | 4                           |
| Number of connections | 8                           |
| Number of rows        | 1                           |
| Potentials            | 4                           |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                     |      |
|---------------------|------|
| Rated surge voltage | 8 kV |
|---------------------|------|

### Connection data

|                                 |                    |
|---------------------------------|--------------------|
| Number of connections per level | 8                  |
| Nominal cross section           | 50 mm <sup>2</sup> |

### Level 1 above 1 below 1

|                                                                                     |                                                                                                                              |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Screw thread                                                                        | M6                                                                                                                           |
| Tightening torque                                                                   | 6 ... 8 Nm                                                                                                                   |
| Stripping length                                                                    | 24 mm                                                                                                                        |
| Internal cylindrical gage                                                           | B10                                                                                                                          |
| Connection in acc. with standard                                                    | IEC 60947-7-1                                                                                                                |
| Conductor cross section rigid                                                       | 16 mm <sup>2</sup> ... 70 mm <sup>2</sup>                                                                                    |
| Cross section AWG                                                                   | 6 ... 2/0 (converted acc. to IEC)                                                                                            |
| Conductor cross section flexible                                                    | 25 mm <sup>2</sup> ... 70 mm <sup>2</sup>                                                                                    |
| Conductor cross section, flexible [AWG]                                             | 3 ... 2/0 (converted acc. to IEC)                                                                                            |
| Conductor cross-section flexible (ferrule without plastic sleeve)                   | 25 mm <sup>2</sup> ... 50 mm <sup>2</sup>                                                                                    |
| Flexible conductor cross section (ferrule with plastic sleeve)                      | 25 mm <sup>2</sup> ... 50 mm <sup>2</sup>                                                                                    |
| 2 conductors with same cross section, solid                                         | 10 mm <sup>2</sup> ... 16 mm <sup>2</sup>                                                                                    |
| 2 conductors with same cross section, flexible                                      | 10 mm <sup>2</sup> ... 16 mm <sup>2</sup>                                                                                    |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 10 mm <sup>2</sup> ... 16 mm <sup>2</sup>                                                                                    |
| Nominal current                                                                     | 150 A                                                                                                                        |
| Maximum load current                                                                | 150 A (with 50 mm <sup>2</sup> conductor cross section)                                                                      |
| Nominal voltage                                                                     | 1000 V                                                                                                                       |
| Note                                                                                | Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area. |
| Nominal cross section                                                               | 50 mm <sup>2</sup>                                                                                                           |

## Dimensions

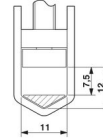
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Dimensional drawing



Width

80 mm

## Material specifications

|                                                                         |             |
|-------------------------------------------------------------------------|-------------|
| Color                                                                   | gray/blue   |
| Flammability rating according to UL 94                                  | V0          |
| Insulating material group                                               | I           |
| Insulating material                                                     | PA          |
| Static insulating material application in cold                          | -60 °C      |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C      |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C      |
| Fire protection for rail vehicles (DIN EN 45545-2) R22                  | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23                  | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24                  | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26                  | HL 1 - HL 3 |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg    |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed      |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed      |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed      |

## Mechanical properties

### Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

## Mounting

|               |              |
|---------------|--------------|
| Mounting type | NS 35/7,5    |
|               | NS 35/15     |
|               | NS 32        |
|               | NS 35/15-2,3 |

# UKH 50-3L/N - High-current terminal block

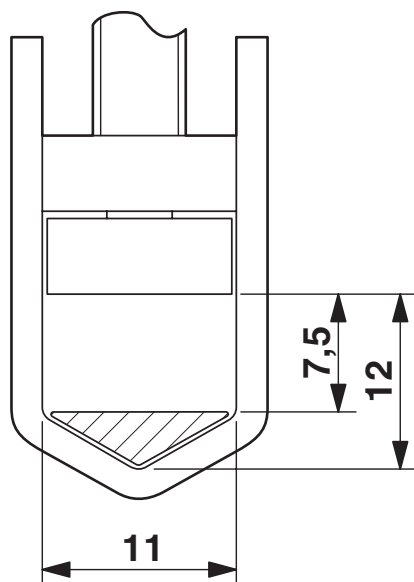
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<https://www.phoenixcontact.com/za/products/3076635>

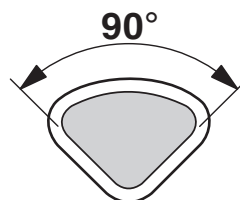
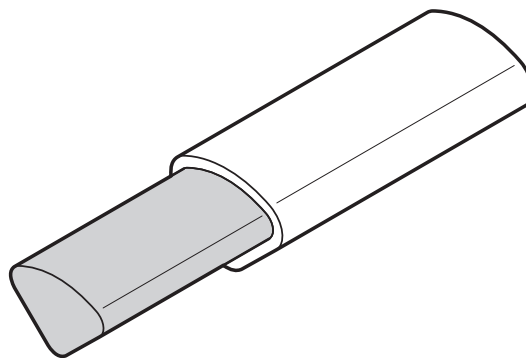
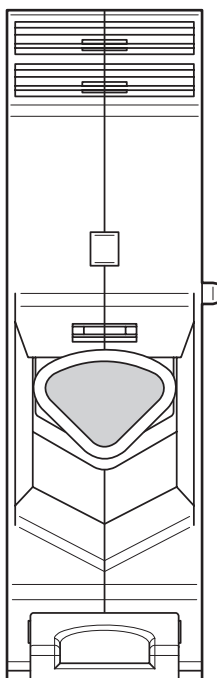


## Drawings

Dimensional drawing



Schematic diagram



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

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Circuit diagram



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## Environmental product compliance

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

# UKH 50-3L/N - High-current terminal block



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## Accessories

**i** Note: Applying some accessories below might limit this product.

### FBI 2-20 - Fixed bridge

0201346

<https://www.phoenixcontact.com/za/products/0201346>



Fixed bridge, pitch: 20 mm, number of positions: 2, color: silver

**i** Max. current carrying capacity: 150 A

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### FBI 3-20 - Fixed bridge

0201317

<https://www.phoenixcontact.com/za/products/0201317>



Fixed bridge, pitch: 20 mm, number of positions: 3, color: silver

**i** Max. current carrying capacity: 150 A

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<https://www.phoenixcontact.com/za/products/3076635>



## FBI 2-20-EX - Fixed bridge

0201113

<https://www.phoenixcontact.com/za/products/0201113>



Fixed bridge, number of positions: 2, color: silver

 Max. current carrying capacity: 130 A

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## FBI 3-20-EX - Fixed bridge

0201812

<https://www.phoenixcontact.com/za/products/0201812>



Fixed bridge, number of positions: 3, color: silver

 Max. current carrying capacity: 130 A

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## UKH 50 EP - Insertion profile

3009228

<https://www.phoenixcontact.com/za/products/3009228>

Insertion profile, color: silver



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## AGK 10-UKH 50 - Pick-off terminal block

3001763

<https://www.phoenixcontact.com/za/products/3001763>



Pick-off terminal block, nom. voltage: 1000 V, nominal current: 57 A, number of connections: 1, connection method: Screw connection, Rated cross section: 10 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, color: gray

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## SZS 1,2X8,0 VDE - Screwdriver

1205082

<https://www.phoenixcontact.com/za/products/1205082>



Screwdriver, slot-headed, VDE insulated, size: 1.2 x 8.0 x 175 mm, 2-component grip, with non-slip grip

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## X-PEN 0,35 - Marker pen

0811228

<https://www.phoenixcontact.com/za/products/0811228>



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

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<https://www.phoenixcontact.com/za/products/3076635>



## NS 35/ 7,5 PERF 2000MM - DIN rail perforated

0801733

<https://www.phoenixcontact.com/za/products/0801733>



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

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## NS 35/ 7,5 UNPERF 2000MM - DIN rail, unperforated

0801681

<https://www.phoenixcontact.com/za/products/0801681>



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

## UKH 50-3L/N - High-current terminal block

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<https://www.phoenixcontact.com/za/products/3076635>



### NS 35/ 7,5 WH PERF 2000MM - DIN rail perforated

1204119

<https://www.phoenixcontact.com/za/products/1204119>



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

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### NS 35/ 7,5 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204122

<https://www.phoenixcontact.com/za/products/1204122>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

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## NS 35/ 7,5 AL UNPERF 2000MM - DIN rail, unperforated

0801704

<https://www.phoenixcontact.com/za/products/0801704>



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

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## NS 35/ 7,5 ZN PERF 2000MM - DIN rail perforated

1206421

<https://www.phoenixcontact.com/za/products/1206421>



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver

# UKH 50-3L/N - High-current terminal block

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## NS 35/ 7,5 ZN UNPERF 2000MM - DIN rail, unperforated

1206434

<https://www.phoenixcontact.com/za/products/1206434>



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver

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## NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

0801762

<https://www.phoenixcontact.com/za/products/0801762>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored

# UKH 50-3L/N - High-current terminal block

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<https://www.phoenixcontact.com/za/products/3076635>



## NS 35/ 7,5 CAP - End cap

1206560

<https://www.phoenixcontact.com/za/products/1206560>

DIN rail end piece, for DIN rail NS 35/7.5



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## NS 35/15-2,3 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201798

<https://www.phoenixcontact.com/za/products/1201798>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile 2.3 mm, color: silver

# UKH 50-3L/N - High-current terminal block

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<https://www.phoenixcontact.com/za/products/3076635>



## NS 32 PERF 2000MM-VPE 10 - DIN rail perforated

1201002

<https://www.phoenixcontact.com/za/products/1201002>



DIN rail perforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver

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## NS 32 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201015

<https://www.phoenixcontact.com/za/products/1201015>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver

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

1201730

<https://www.phoenixcontact.com/za/products/1201730>



DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

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

1201714

<https://www.phoenixcontact.com/za/products/1201714>



DIN rail, unperforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

## UKH 50-3L/N - High-current terminal block

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

0806602

<https://www.phoenixcontact.com/za/products/0806602>



DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: white

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## NS 35/15 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204135

<https://www.phoenixcontact.com/za/products/1204135>



DIN rail, unperforated, Pack of 10 (20 m), similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

# UKH 50-3L/N - High-current terminal block

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<https://www.phoenixcontact.com/za/products/3076635>



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

1201756

<https://www.phoenixcontact.com/za/products/1201756>



DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

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

1206599

<https://www.phoenixcontact.com/za/products/1206599>



DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver

# UKH 50-3L/N - High-current terminal block

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<https://www.phoenixcontact.com/za/products/3076635>



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

1206586

<https://www.phoenixcontact.com/za/products/1206586>



DIN rail, unperforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver

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## NS 35/15 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201895

<https://www.phoenixcontact.com/za/products/1201895>



DIN rail, unperforated, Pack of 10 (20 m), similar to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored

# UKH 50-3L/N - High-current terminal block

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<https://www.phoenixcontact.com/za/products/3076635>



## NS 35/15 CAP - End cap

1206573

<https://www.phoenixcontact.com/za/products/1206573>

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



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## ZB 10:UNBEDRUCKT - Zack marker strip

1053001

<https://www.phoenixcontact.com/za/products/1053001>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10.5 x 10.15 mm, Number of individual labels: 10

# UKH 50-3L/N - High-current terminal block

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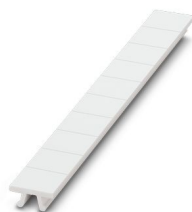
<https://www.phoenixcontact.com/za/products/3076635>



## ZB 10 CUS - Zack marker strip

0824941

<https://www.phoenixcontact.com/za/products/0824941>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

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## ZB10,LGS:FORTL.ZAHLEN - Zack marker strip

1053014

<https://www.phoenixcontact.com/za/products/1053014>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

# UKH 50-3L/N - High-current terminal block



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## ZB10,QR:FORTL.ZAHLEN - Zack marker strip

1053027

<https://www.phoenixcontact.com/za/products/1053027>



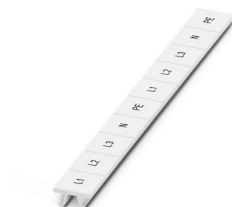
Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

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## ZB10,LGS:L1-N,PE - Marker for terminal blocks

1053412

<https://www.phoenixcontact.com/za/products/1053412>



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: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

# UKH 50-3L/N - High-current terminal block

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<https://www.phoenixcontact.com/za/products/3076635>



## ZB10,LGS:U-N - Marker for terminal blocks

1053438

<https://www.phoenixcontact.com/za/products/1053438>



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: U, V, W, N, GND, U, V, W, N, GND, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

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## UC-TM 10 - Marker for terminal blocks

0818069

<https://www.phoenixcontact.com/za/products/0818069>



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: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

## UKH 50-3L/N - High-current terminal block

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<https://www.phoenixcontact.com/za/products/3076635>



## UC-TM 10 CUS - Marker for terminal blocks

0824605

<https://www.phoenixcontact.com/za/products/0824605>



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: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

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## UCT-TM 10 - Marker for terminal blocks

0829142

<https://www.phoenixcontact.com/za/products/0829142>



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: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

# UKH 50-3L/N - High-current terminal block

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## UCT-TM 10 CUS - Marker for terminal blocks

0829623

<https://www.phoenixcontact.com/za/products/0829623>



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: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

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## TMT 10 R - Marker for terminal blocks

0816210

<https://www.phoenixcontact.com/za/products/0816210>



Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, perforated, mounting type: snapped, snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 6.35 x 10.15 mm, Number of individual labels: 10000

# UKH 50-3L/N - High-current terminal block

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## TMT 10 R CUS - Marker for terminal blocks

0824500

<https://www.phoenixcontact.com/za/products/0824500>



Marker for terminal blocks, can be ordered: by line, white, labeled according to customer specifications, mounting type: snap into universal marker groove, snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 6.35 x 10.15 mm

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## E/AL-NS 32 - End bracket

1201659

<https://www.phoenixcontact.com/za/products/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

# UKH 50-3L/N - High-current terminal block



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<https://www.phoenixcontact.com/za/products/3076635>

## E/AL-NS 35 - End bracket

1201662

<https://www.phoenixcontact.com/za/products/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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PHOENIX CONTACT (Pty) Ltd.

36 Lyn Road P.O. Box 916 ZA-Ferndale 2160

+27/11/801-8200

[info@phoenixcontact.co.za](mailto:info@phoenixcontact.co.za)