

## N disconnect terminal block - UKN 10 N BU - 3003910

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N disconnect terminal block, Special and hybrid connection, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, AWG: 20 - 6, width: 10.2 mm, color: blue, mounting type: NS 35/7,5, NS 35/15, NS 32

### Your advantages

- With screw disconnect slide

### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 50 pc         |
| GTIN         |               |
| GTIN         | 4017918106904 |

### Technical data

#### General

|   |  |
|---|--|
| Number of levels                                | 1  |
| Number of connections                           | 2  |
| Nominal cross section                           | 10 mm <sup>2</sup>                                     |
| Color   | blue   |
| Insulating material                             | PA   |
| Flammability rating according to UL 94          | V0   |
| Maximum load current                            | 63 A (with 16 mm <sup>2</sup> conductor cross section) |
| Current carrying capacity of the neutral busbar | 140 A  |
| Rated surge voltage                             | 6 kV   |
| Degree of pollution                             | 3  |
| Overvoltage category                            | III  |
| Insulating material group                       | I  |
| Maximum power dissipation for nominal condition | 1.82 W   |
| Connection in acc. with standard                | IEC 60947-7-1  |
| Nominal current I <sub>N</sub>                  | 57 A   |

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## Technical data

### General

|   |  |
|---|--|
| Maximum load current  | 63 A (with 16 mm <sup>2</sup> conductor cross section) |
| Nominal voltage U <sub>N</sub>  | 400 V  |
| Open side panel   | Yes  |
| Disconnect slide, screw thread  | M3   |
| Tightening torque, min  | 0.6 Nm   |
| Tightening torque max   | 0.8 Nm   |
| 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  |
| Result of tight fit on support  | Test passed  |
| Tight fit on carrier  | NS 32/NS 35  |
| Setpoint  | 5 N  |
| Result of temperature-rise test   | Test passed  |
| Short circuit stability result  | Test passed  |
| Conductor cross section short circuit testing   | 10 mm <sup>2</sup>                                     |
| Short-time current  | 1.2 kA   |
| 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   |
| Test specification, oscillation, broadband noise  | DIN EN 50155 (VDE 0115-200):2018-05                    |
| Test spectrum   | Service life test category 2, bogie-mounted            |
| Test frequency  | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz       |
| ASD level   | 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz              |
| Acceleration  | 3.12 g   |
| Test duration per axis  | 5 h  |
| Test directions   | X-, Y- and Z-axis                                      |
| 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   |

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## Technical data

### General

|   |             |
|---|-------------|
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C      |
| Static insulating material application in cold                          | -60 °C      |
| 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      |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg    |
| 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 |

### Dimensions

|                  |         |
|------------------|---------|
| Width            | 10.2 mm |
| Length           | 43.5 mm |
| Height NS 35/7,5 | 47.3 mm |
| Height NS 35/15  | 54.8 mm |
| Height NS 32     | 52.3 mm |

### Connection data

| Note   | Terminal point      |
|--|---------------------|
| Conductor cross section solid min.   | 0.5 mm <sup>2</sup> |
| Conductor cross section solid max.   | 16 mm <sup>2</sup>  |
| Conductor cross section flexible min.  | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max.  | 10 mm <sup>2</sup>  |
| Conductor cross section AWG min.   | 20                  |
| Conductor cross section AWG max.   | 6                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                             | 10 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 6 mm <sup>2</sup>   |
| 2 conductors with same cross section, solid min.   | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, solid max.   | 4 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded min.  | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded max.  | 4 mm <sup>2</sup>   |
| Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, minimum  | 0.5 mm <sup>2</sup> |
| Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, maximum  | 2.5 mm <sup>2</sup> |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.5 mm <sup>2</sup> |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 6 mm <sup>2</sup>   |

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## Technical data

### Connection data

|                        |                               |
|------------------------|-------------------------------|
| Connection method      | Special and hybrid connection |
| Stripping length       | 10 mm                         |
| Screw thread           | M4                            |
| Tightening torque, min | 1.5 Nm                        |
| Tightening torque max  | 1.8 Nm                        |

### Standards and Regulations

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

### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50 years  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

Circuit diagram



## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141100 |
| eCl@ss 4.1 | 27141100 |
| eCl@ss 5.0 | 27141100 |
| eCl@ss 5.1 | 27141100 |
| eCl@ss 6.0 | 27141100 |
| eCl@ss 7.0 | 27141138 |
| eCl@ss 8.0 | 27141138 |
| eCl@ss 9.0 | 27141138 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001257 |
| ETIM 3.0 | EC001257 |
| ETIM 4.0 | EC001257 |
| ETIM 5.0 | EC001257 |
| ETIM 6.0 | EC001257 |
| ETIM 7.0 | EC001257 |

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## Classifications

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |
| UNSPSC 18.0   | 39121410 |
| UNSPSC 19.0   | 39121410 |
| UNSPSC 20.0   | 39121410 |
| UNSPSC 21.0   | 39121410 |

## Approvals

### Approvals

Approvals

EAC / EAC

Ex Approvals

### Approval details

|     |  |               |
|-----|--|---------------|
| EAC |  | EAC-Zulassung |
|-----|--|---------------|

|     |  |                          |
|-----|--|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00534 |
|-----|--|--------------------------|

## Accessories

### Accessories

#### Cover profile

Cover profile - AP-NLS N - 1013634



Cover profile, length: 300 mm, color: transparent

## N disconnect terminal block - UKN 10 N BU - 3003910

### Accessories

#### DIN rail

DIN rail perforated - NS 32 PERF 2000MM - 1201002



DIN rail perforated, G profile, width: 32 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

---

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



DIN rail, unperforated, G profile, width: 32 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

---

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

---

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

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DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

---

## N disconnect terminal block - UKN 10 N BU - 3003910

### Accessories

DIN rail, unperforated - NS 35/ 7,5 WH UNPERF 2000MM - 1204122



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

---

DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

---

DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

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DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

---

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

---

## N disconnect terminal block - UKN 10 N BU - 3003910

### Accessories

End cap - NS 35/ 7,5 CAP - 1206560

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



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



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

---

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

---

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



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver



## N disconnect terminal block - UKN 10 N BU - 3003910

### Accessories

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

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



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

---

End cap - NS 35/15 CAP - 1206573



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

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## N disconnect terminal block - UKN 10 N BU - 3003910

### Accessories

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, unperforated, Standard profile 2.3 mm, width: 35 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

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### End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

End clamp - E/UK - 1201442



End clamp, width: 9.5 mm, height: 35.3 mm, material: PA, length: 50.5 mm, Mounting on a DIN rail NS 32 or NS 35, color: gray

## N disconnect terminal block - UKN 10 N BU - 3003910

### Accessories

End clamp - E/UK 1 - 1201413



End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

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### End cover

End cover - D-UK 4/10 BU - 3003101



End cover, length: 42.5 mm, width: 1.8 mm, height: 47 mm, color: blue

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### Labeled terminal marker

Zack marker strip - ZB 10 CUS - 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

---

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

---

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

---

## N disconnect terminal block - UKN 10 N BU - 3003910

### Accessories

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

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

Marker for terminal blocks - UC-TM 10 CUS - 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

Marker for terminal blocks - UCT-TM 10 CUS - 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

### Neutral conductor rail

Neutral busbar - NLS-CU 3/10 SN 1000MM - 0402174



Neutral busbar, width: 10 mm, height: 3 mm, DIN VDE 0611-4: 1991-02, material: Copper, tin-plated, length: 1000 mm, color: silver

### Support

## N disconnect terminal block - UKN 10 N BU - 3003910

### Accessories

Support bracket - UAB - 3032428



Support bracket, number of positions: 1, width: 2 mm, color: blue

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Support bracket - AB/NS - 1201141



Support bracket, for insulated mounting of DIN rails in insulated systems, plastic, 21 mm high

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### Terminal marking

Marker card - SBS10:UNBEDRUCKT - 1007248



Marker card, Card, white, unlabeled, can be labeled with: Marker pen, perforated, mounting type: snap into tall marker groove, snap into flat marker groove, for terminal block width: 10 mm, lettering field size: 6 x 10.1 mm, Number of individual labels: 250

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Zack marker strip - ZB 10:UNBEDRUCKT - 1053001



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

---

Marker for terminal blocks - UC-TM 10 - 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: 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

## N disconnect terminal block - UKN 10 N BU - 3003910

### Accessories

Marker for terminal blocks - UCT-TM 10 - 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: 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

---

### Additional products

Connection terminal block - AKG 16 BU - 0423014



Connection terminal block, connection method: Screw connection, load current: 76 A, cross section: 1.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, width: 9.8 mm, color: blue

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Connection terminal block - AKG 35 BU - 0424013



Connection terminal block, connection method: Screw connection, load current: 125 A, cross section: 2.5 mm<sup>2</sup> - 35 mm<sup>2</sup>, width: 14.3 mm, color: blue

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Branch terminal - IAK 16 - 2715982



Branch terminal, connection method: Screw connection, load current: 76 A, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, width: 7.7 mm, color: gray

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