

## Installation ground terminal block - UK 35-1-PE/N - 3008067

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Installation ground terminal block, PE/N block, consisting of a green-yellow ground terminal and a blue terminal block with screw bridge, Screw connection, cross section: 0.75 mm<sup>2</sup> - 35 mm<sup>2</sup>, AWG: 18 - 2, width: 30.1 mm, color: green-yellow-blue, mounting type: NS 35/15-2,3

The figure shows version UK 35  
PE/N



### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 10 pc                                                                                |
| GTIN         |  |
| GTIN         | 4017918091583                                                                        |

### Technical data

#### General

|                                        |                                                                                                                                                                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note                                   | The NS 32... or NS 35... Cu DIN rail should be used for a connection cross section of 35 mm <sup>2</sup> /2 AWG. When aligned with a feed-through terminal block of the same shape, a cover must be used at insulation voltages > 630 V. |
| Number of levels                       | 1                                                                                                                                                                                                                                        |
| Number of connections                  | 4                                                                                                                                                                                                                                        |
| Color                                  | green-yellow-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                                                                                                                                                                                                                                        |
| Connection in acc. with standard       | IEC 60947-7-1/IEC 60947-7-2                                                                                                                                                                                                              |
| Nominal current I <sub>N</sub>         | 125 A                                                                                                                                                                                                                                    |
| Maximum load current                   | 125 A (with 35 mm <sup>2</sup> conductor cross section)                                                                                                                                                                                  |

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## Technical data

### General

|                                                                                           |                                                                                                                           |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Nominal voltage $U_N$                                                                     | 630 V (When aligned with a modular terminal block of the same shape, a separating disk must be used at voltages > 630 V.) |
| Open side panel                                                                           | No                                                                                                                        |
| Terminal block mounting                                                                   | 2.5 Nm ... 3 Nm (PE foot with mounting screw, M5)                                                                         |
| 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                                                | 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                                                                                                                       |
| Bending test conductor cross section/weight                                               | 0.75 mm <sup>2</sup> / 0.4 kg                                                                                             |
|                                                                                           | 35 mm <sup>2</sup> / 6.8 kg                                                                                               |
| Tensile test result                                                                       | Test passed                                                                                                               |
| Conductor cross section tensile test                                                      | 0.75 mm <sup>2</sup>                                                                                                      |
| Tractive force setpoint                                                                   | 30 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 thermal test                                                                    | Test passed                                                                                                               |
| Proof of thermal characteristics (needle flame) effective duration                        | 30 s                                                                                                                      |
| 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                                                                                                                    |
| 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)                                          | 27,5 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                                                                                                               |

# Installation ground terminal block - UK 35-1-PE/N - 3008067

## Technical data

### General

|                                                        |             |
|--------------------------------------------------------|-------------|
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 |
|--------------------------------------------------------|-------------|

### Dimensions

|                  |         |
|------------------|---------|
| Width            | 30.1 mm |
| Length           | 50 mm   |
| Height NS 35/7,5 | 62 mm   |
| Height NS 35/15  | 69.5 mm |
| Height NS 32     | 67 mm   |

### Connection data

|                                                                            |                                                                |
|----------------------------------------------------------------------------|----------------------------------------------------------------|
| Note                                                                       | Please observe the current carrying capacity of the DIN rails. |
| Conductor cross section solid min.                                         | 0.75 mm <sup>2</sup>                                           |
| Conductor cross section solid max.                                         | 35 mm <sup>2</sup>                                             |
| Conductor cross section flexible min.                                      | 0.75 mm <sup>2</sup>                                           |
| Conductor cross section flexible max.                                      | 35 mm <sup>2</sup>                                             |
| Conductor cross section AWG min.                                           | 18                                                             |
| Conductor cross section AWG max.                                           | 2                                                              |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.75 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.    | 0.75 mm <sup>2</sup>                                           |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 35 mm <sup>2</sup>                                             |
| Connection method                                                          | Screw connection                                               |
| Stripping length                                                           | 16 mm                                                          |
| Screw thread                                                               | M6                                                             |
| Tightening torque, min                                                     | 3.2 Nm                                                         |
| Tightening torque max                                                      | 3.7 Nm                                                         |

### Standards and Regulations

|                                        |                             |
|----------------------------------------|-----------------------------|
| Connection in acc. with standard       | IEC 60947-7-1/IEC 60947-7-2 |
| 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" |

## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141125 |
| eCl@ss 4.0    | 27141100 |
| eCl@ss 4.1    | 27141100 |

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27141100 |
| eCl@ss 5.1 | 27141100 |
| eCl@ss 6.0 | 27141100 |
| eCl@ss 7.0 | 27141125 |
| eCl@ss 8.0 | 27141125 |
| eCl@ss 9.0 | 27141125 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000901 |
| ETIM 3.0 | EC000901 |
| ETIM 4.0 | EC000901 |
| ETIM 5.0 | EC000901 |
| ETIM 6.0 | EC001329 |
| ETIM 7.0 | EC001329 |

#### 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 |  | RU C-<br>DE.A*30.B.01742 |
|-----|-------------------------------------------------------------------------------------|--------------------------|

# Installation ground terminal block - UK 35-1-PE/N - 3008067

## Approvals

EAC



RU C-  
DE.BL08.B.00534

## Accessories

### Accessories

#### Cover profile

Cover profile - AP-NLS N - 1013634



Cover profile, length: 300 mm, color: transparent

#### DIN rail

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

#### End block

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

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

#### Labeled terminal marker

## Installation ground terminal block - UK 35-1-PE/N - 3008067

### Accessories

#### 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

#### 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

# Installation ground terminal block - UK 35-1-PE/N - 3008067

## Accessories

### 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

## Partition plate

### Separating plate - TS-K - 1302215



Separating plate, length: 22 mm, width: 0.5 mm, height: 22 mm, color: gray

## 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

## Installation ground terminal block - UK 35-1-PE/N - 3008067

### Accessories

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

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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

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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

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