

## Ground modular terminal block - MT 1,5-PE - 3100318

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Ground modular terminal block, When aligning with a feed-through terminal block of the same shape, an end cover must be interposed for insulation voltages of > 320 V, connection method: Screw connection, number of connections: 2, cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 16, width: 4.2 mm, color: green-yellow, mounting type: NS 15

### Your advantages

- Low contact resistance
- Corrosion-free terminal points
- Green-yellow housing
- Captive terminal block screws

### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 50 pc   |
| GTIN         | <br>4 017918 099268 |
| GTIN         | 4017918099268   |

### Technical data

#### General

|  |  |
|--|--|
| Note                                   | When aligning with a feed-through terminal block of the same shape, an end cover must be interposed for insulation voltages of > 320 V |
| Number of levels                       | 1  |
| Number of connections                  | 2  |
| Nominal cross section                  | 1.5 mm <sup>2</sup>  |
| Color                                  | green-yellow   |
| Insulating material                    | PA   |
| Flammability rating according to UL 94 | V0   |
| Rated surge voltage                    | 4 kV   |
| Degree of pollution                    | 3  |
| Overvoltage category                   | III  |
| Insulating material group              | I  |
| Open side panel                        | No   |

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## Technical data

### General

|   |  |
|---|--|
| Ambient temperature (operation)   | -60 °C ... 85 °C   |
| Ambient temperature (storage/transport)                                 | -25 °C ... 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C) |
| Permissible humidity (storage/transport)                                | 30 % ... 70 %  |
| Ambient temperature (assembly)  | -5 °C ... 70 °C  |
| Ambient temperature (actuation)   | -5 °C ... 70 °C  |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C   |
| 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   |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg   |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed   |
| 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        | 4.2 mm  |
| Length       | 22 mm   |
| Height NS 15 | 23.5 mm |

### Connection data

|  |  |
|--|--|
| Note   | Please observe the current carrying capacity of the DIN rails. |
| Connection   | 1 level  |
| Connection method  | Screw connection   |
| Screw thread   | M2   |
| Stripping length   | 6 mm   |
| Tightening torque, min   | 0.22 Nm  |
| Tightening torque max  | 0.25 Nm  |
| Connection in acc. with standard   | IEC 60947-7-2  |
| Conductor cross section solid min.   | 0.14 mm <sup>2</sup>   |
| Conductor cross section solid max.   | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.   | 26   |
| Conductor cross section AWG max.   | 16   |
| Conductor cross section flexible min.                                      | 0.14 mm <sup>2</sup>   |
| Conductor cross section flexible max.                                      | 1.5 mm <sup>2</sup>  |
| Min. AWG conductor cross section, flexible                                 | 26   |
| Max. AWG conductor cross section, flexible                                 | 16   |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 0.75 mm <sup>2</sup>   |

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## Technical data

### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 0.75 mm <sup>2</sup> |
| Internal cylindrical gage   | A1                   |

### Standards and Regulations

|  |               |
|--|---------------|
| Connection in acc. with standard       | CSA           |
|  | 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" |

## Drawings

Circuit diagram



## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141141 |
| 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    | 27141141 |
| eCl@ss 8.0    | 27141141 |
| eCl@ss 9.0    | 27141141 |

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## Classifications

### ETIM

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

### 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


DNV GL / CSA / BV / CCA / UL Recognized / EAC / LR / EAC

#### Ex Approvals

EAC Ex

### Approval details

|        |   |   |            |
|--------|---|---|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE00001CT |
|--------|---|---|------------|

|                            |   |   |       |
|----------------------------|---|---|-------|
| CSA                        |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
| mm <sup>2</sup> /AWG/kcmil |   | 28-14   |       |

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## Approvals

|    |  |   |             |
|----|--|---|-------------|
| BV |  | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a> | 07774/D0 BV |
|----|--|---|-------------|

|                            |             |  |  |
|----------------------------|-------------|--|--|
| CCA                        | NTR-NL 4243 |  |  |
| mm <sup>2</sup> /AWG/kcmil | 1.5         |  |  |

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| UL Recognized              |       | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                            | B     | D   |              |
| mm <sup>2</sup> /AWG/kcmil | 30-14 | 30-14   |              |

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

|    |  |   |          |
|----|--|---|----------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | 88/20086 |
|----|--|---|----------|

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

## Accessories

### Accessories

#### DIN rail

DIN rail, unperforated - NS 15 UNPERF 2000MM - 1401695



DIN rail, unperforated, Standard profile, width: 15 mm, height: 5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

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### Accessories

DIN rail perforated - NS 15 PERF 2000MM - 1401682



DIN rail perforated, Standard profile, width: 15 mm, height: 5.5 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 15 AL PERF 2000MM - 1401763



DIN rail perforated, Standard profile, width: 15 mm, height: 5.5 mm, acc. to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

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DIN rail perforated - NS 15 WH PERF 2000MM - 1204096



DIN rail perforated, Standard profile, width: 15 mm, height: 5.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

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### End block

End clamp - CLIPFIX 15 - 3022263



Snap-on end bracket, to be snapped onto NS 15 DIN rail

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### Labeled terminal marker

Zack Marker strip, flat - ZBF 4 CUS - 0825023



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 4.2 mm, lettering field size: 4.2 x 5.2 mm, Number of individual labels: 10

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## Ground modular terminal block - MT 1,5-PE - 3100318

### Accessories

Zack Marker strip, flat - ZBF 4,LGS:FORTL.ZAHLEN - 0808626



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into flat marker groove, for terminal block width: 4 mm, lettering field size: 4.2 x 5.2 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 4,QR:FORTL.ZAHLEN - 0808820



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into flat marker groove, for terminal block width: 4 mm, lettering field size: 4.2 x 5.2 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 4,LGS:GERADE ZAHLEN - 0810818



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 2 ... 20, 22 ... 40, etc. up to 82 ... 100, mounting type: snap into flat marker groove, for terminal block width: 4 mm, lettering field size: 5.15 x 4.15 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 4,LGS:UNGERADE ZAHLEN - 0810850



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, mounting type: snap into flat marker groove, for terminal block width: 4 mm, lettering field size: 5.15 x 4.15 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TMF 4 CUS - 0824630



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 4.2 mm, lettering field size: 3.6 x 5.1 mm, Number of individual labels: 120

## Ground modular terminal block - MT 1,5-PE - 3100318

### Accessories

#### Marker for terminal blocks - UCT-TMF 4 CUS - 0829651



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 4.2 mm, lettering field size: 3.4 x 4.7 mm, Number of individual labels: 90

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### Screwdriver tools

#### Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

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### Terminal marking

#### Zack Marker strip, flat - ZBF 4:UNBEDRUCKT - 0808587



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into flat marker groove, for terminal block width: 4 mm, lettering field size: 4.2 x 5.2 mm, Number of individual labels: 10

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#### Marker for terminal blocks - UC-TMF 4 - 0818166



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 flat marker groove, for terminal block width: 4.2 mm, lettering field size: 3.6 x 5.1 mm, Number of individual labels: 120

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#### Marker for terminal blocks - UCT-TMF 4 - 0828742



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 flat marker groove, for terminal block width: 4.2 mm, lettering field size: 3.4 x 4.7 mm, Number of individual labels: 90

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### Test socket



## Ground modular terminal block - MT 1,5-PE - 3100318

### Accessories

Test adapter - PAI-4 - 3030925



Test adapter, for 4 mm test plug and terminal blocks with 4.2 mm ... 8.2 mm pitch, color: gray

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