

## Feed-through terminal block - ST 16 BU - 3036152

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Feed-through terminal block, Connection method: Spring-cage connection, Cross section: 0.2 mm<sup>2</sup> - 25 mm<sup>2</sup>, AWG: 24 - 4, Width: 12.2 mm, Color: blue, Mounting type: NS 35/7,5, NS 35/15

### Why buy this product

- ✓ The double bridge shaft not only enables individual chain bridging, but also reducing bridging to spring-cage terminal blocks with smaller cross sections
- ✓ The flexible options for reducing bridging in the CLIPLINE complete system can be found in "Accessories for the CLIPLINE complete modular terminal block system"



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 50 STK                                                                                                  |
| GTIN                                 | <br>4 017918 821081 |
| GTIN                                 | 4017918821081                                                                                           |
| Weight per Piece (excluding packing) | 37.700 g                                                                                                |
| Custom tariff number                 | 85369010                                                                                                |
| Country of origin                    | Poland                                                                                                  |

### Technical data

#### General

|                                        |                    |
|----------------------------------------|--------------------|
| Number of levels                       | 1                  |
| Number of connections                  | 2                  |
| Potentials                             | 1                  |
| Nominal cross section                  | 16 mm <sup>2</sup> |
| Color                                  | blue               |
| Insulating material                    | PA                 |
| Flammability rating according to UL 94 | V0                 |
| Rated surge voltage                    | 8 kV               |
| Degree of pollution                    | 3                  |

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## Technical data

### General

|                                                                         |                                                        |
|-------------------------------------------------------------------------|--------------------------------------------------------|
| Overvoltage category                                                    | III                                                    |
| Insulating material group                                               | I                                                      |
| Maximum load current                                                    | 90 A (with 25 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>                                          | 76 A                                                   |
| Nominal voltage U <sub>N</sub>                                          | 1000 V                                                 |
| Open side panel                                                         | Yes                                                    |
| 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                                                 |
| Behavior in fire for rail vehicles (DIN 5510-2)                         | Test passed                                            |
| Flame test method (DIN EN 60695-11-10)                                  | V0                                                     |
| Oxygen index (DIN EN ISO 4589-2)                                        | >32 %                                                  |
| NF F16-101, NF F10-102 Class I                                          | 2                                                      |
| NF F16-101, NF F10-102 Class F                                          | 2                                                      |
| 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                                            |
| Fire protection for rail vehicles (DIN EN 45545-2) R26                  | HL 1 - HL 3                                            |

### Dimensions

|                  |         |
|------------------|---------|
| Width            | 12.2 mm |
| End cover width  | 2.2 mm  |
| Length           | 80 mm   |
| Height NS 35/7,5 | 51.5 mm |
| Height NS 35/15  | 59 mm   |

### Connection data

|                                            |                        |
|--------------------------------------------|------------------------|
| Connection method                          | Spring-cage connection |
| Connection in acc. with standard           | IEC 60947-7-1          |
| Conductor cross section solid min.         | 0.2 mm <sup>2</sup>    |
| Conductor cross section solid max.         | 25 mm <sup>2</sup>     |
| Conductor cross section AWG min.           | 24                     |
| Conductor cross section AWG max.           | 4                      |
| Conductor cross section flexible min.      | 0.2 mm <sup>2</sup>    |
| Conductor cross section flexible max.      | 16 mm <sup>2</sup>     |
| Min. AWG conductor cross section, flexible | 24                     |
| Max. AWG conductor cross section, flexible | 6                      |

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## Technical data

### Connection data

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| 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.              | 16 mm <sup>2</sup>   |
| 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.                 | 16 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 4 mm <sup>2</sup>    |
| Connection in acc. with standard                                                        | IEC/EN 60079-7       |
| Conductor cross section solid min.                                                      | 1.5 mm <sup>2</sup>  |
| Conductor cross section solid max.                                                      | 25 mm <sup>2</sup>   |
| Conductor cross section AWG min.                                                        | 16                   |
| Conductor cross section AWG max.                                                        | 4                    |
| Conductor cross section flexible min.                                                   | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                                   | 16 mm <sup>2</sup>   |
| Stripping length                                                                        | 18 mm                |
| Internal cylindrical gage                                                               | A7                   |

### Standards and Regulations

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

### Environmental Product Compliance

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

## Drawings

### Circuit diagram



## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141121 |
| eCl@ss 4.1 | 27141121 |
| eCl@ss 5.0 | 27141120 |
| eCl@ss 5.1 | 27141120 |
| eCl@ss 6.0 | 27141120 |
| eCl@ss 7.0 | 27141120 |
| eCl@ss 8.0 | 27141120 |

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 9.0 | 27141120 |
|------------|----------|

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000897 |
| ETIM 6.0 | EC000897 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |

### Approvals

#### Approvals

#### Approvals

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / LR / BV / KR / NK / IECCEB Scheme / EAC / EAC / DNV GL / DNV GL / cULus Recognized

#### Ex Approvals

IECEEx / ATEX / EAC Ex

### Approval details

|                                |                                                                                     |                                                                                                                                                                                           |       |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                            |  | <a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a> | 13631 |
|                                | B                                                                                   | C                                                                                                                                                                                         |       |
| mm²/AWG/kcmil                  | 16-4                                                                                | 16-4                                                                                                                                                                                      |       |
| Nominal current I <sub>N</sub> | 85 A                                                                                | 85 A                                                                                                                                                                                      |       |
| Nominal voltage U <sub>N</sub> | 600 V                                                                               | 600 V                                                                                                                                                                                     |       |

## Feed-through terminal block - ST 16 BU - 3036152

### Approvals

|                                |                                                                                   |                                                                                                                                                       |              |
|--------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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                                                                                 | C                                                                                                                                                     |              |
| mm²/AWG/kcmil                  | 16-4                                                                              | 16-4                                                                                                                                                  |              |
| Nominal current I <sub>N</sub> | 85 A                                                                              | 85 A                                                                                                                                                  |              |
| Nominal voltage U <sub>N</sub> | 600 V                                                                             | 600 V                                                                                                                                                 |              |

|                                            |                                                                                   |                                                                                                                                                                                                              |          |
|--------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Gutachten mit<br>Fertigungsüberwachung |  | <a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/<br/>VDE-approved-products/Pages/Online-Search.aspx</a> | 40009030 |
|                                            |                                                                                   |                                                                                                                                                                                                              |          |
| mm²/AWG/kcmil                              | 1.5-16                                                                            |                                                                                                                                                                                                              |          |
| Nominal current I <sub>N</sub>             | 76 A                                                                              |                                                                                                                                                                                                              |          |
| Nominal voltage U <sub>N</sub>             | 800 V                                                                             |                                                                                                                                                                                                              |          |

|                                |                                                                                     |                                                                                                                                                       |              |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| cUL 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                                                                                   | C                                                                                                                                                     |              |
| mm²/AWG/kcmil                  | 16-4                                                                                | 16-4                                                                                                                                                  |              |
| Nominal current I <sub>N</sub> | 85 A                                                                                | 85 A                                                                                                                                                  |              |
| Nominal voltage U <sub>N</sub> | 600 V                                                                               | 600 V                                                                                                                                                 |              |

|    |                                                                                     |                                                         |          |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------|----------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | 04/20034 |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------|----------|

|    |                                                                                     |                                                                                                                                                                                                                                    |             |
|----|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| BV |  | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/<br/>approved/approvedProducts/equipmentAndMaterials</a> | 13403/B0 BV |
|----|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|

|    |                                                                                     |                                                                                               |                |
|----|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------|
| KR |  | <a href="http://www.krs.co.kr/eng/main/main.aspx">http://www.krs.co.kr/eng/main/main.aspx</a> | HMB17372-EL002 |
|----|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------|

|    |                                                                                     |                                                                               |           |
|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------|
| NK |  | <a href="http://www.classnk.or.jp/hp/en/">http://www.classnk.or.jp/hp/en/</a> | 09 ME 140 |
|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------|

## Feed-through terminal block - ST 16 BU - 3036152

### Approvals

|                                |                     |                                                           |           |
|--------------------------------|---------------------|-----------------------------------------------------------|-----------|
| IECEE CB Scheme                | <b>CB</b><br>scheme | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-51463 |
| mm²/AWG/kcmil                  | 1.5-16              |                                                           |           |
| Nominal current I <sub>N</sub> | 76 A                |                                                           |           |
| Nominal voltage U <sub>N</sub> | 800 V               |                                                           |           |

|     |            |               |
|-----|------------|---------------|
| EAC | <b>EAC</b> | EAC-Zulassung |
|-----|------------|---------------|

|     |            |                     |
|-----|------------|---------------------|
| EAC | <b>EAC</b> | 7500651.22.01.00246 |
|-----|------------|---------------------|

|        |                                                             |                  |
|--------|-------------------------------------------------------------|------------------|
| DNV GL | <a href="https://www.dnvgl.com/">https://www.dnvgl.com/</a> | E-13345 (E-9232) |
|--------|-------------------------------------------------------------|------------------|

|        |                                                             |            |
|--------|-------------------------------------------------------------|------------|
| DNV GL | <a href="https://www.dnvgl.com/">https://www.dnvgl.com/</a> | TAE00001CS |
|--------|-------------------------------------------------------------|------------|

|                  |              |                                                                                                                                                       |
|------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| cULus Recognized | <b>cULus</b> | <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> |
|------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

### Accessories

#### Accessories

#### DIN rail

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



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

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



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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### Accessories

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



DIN rail 35 mm (NS 35)

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



DIN rail 35 mm (NS 35)

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



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

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



DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

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



DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

## Feed-through terminal block - ST 16 BU - 3036152

### Accessories

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



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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



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

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### Documentation

Mounting material - ST-IL - 3039900



Operating decal for the ST terminal block

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### End cover

End cover - D-ST 16 - 3036657



End cover, Length: 80 mm, Width: 2.2 mm, Height: 51.1 mm, Color: gray

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### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663



Insulating sleeve, Color: white

## Feed-through terminal block - ST 16 BU - 3036152

### Accessories

Insulating sleeve - MPS-IH RD - 0201676



Insulating sleeve, Color: red

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Insulating sleeve - MPS-IH BU - 0201689



Insulating sleeve, Color: blue

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Insulating sleeve - MPS-IH YE - 0201692



Insulating sleeve, Color: yellow

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Insulating sleeve - MPS-IH GN - 0201702



Insulating sleeve, Color: green

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Insulating sleeve - MPS-IH GY - 0201728



Insulating sleeve, Color: gray

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## Feed-through terminal block - ST 16 BU - 3036152

### Accessories

Insulating sleeve - MPS-IH BK - 0201731



Insulating sleeve, Color: black

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### Jumper

Plug-in bridge - FBS 2-12 - 3005950



Plug-in bridge, Pitch: 12 mm, Number of positions: 2, Color: red

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### Labeled terminal marker

Warning cover - WST 10/35 - 3030006

Warning cover, 5-pos., for terminal widths of 10.2 mm, 12.2 mm, and 16 mm



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Zack marker strip - ZB 12 CUS - 0824942



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 12.2 mm, Lettering field: 10.5 x 12.15 mm

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Marker for terminal blocks - ZB 12,LGS:L1-N,PE - 0812146



Marker for terminal blocks, Strip, white, labeled, Printed horizontally: L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 12.2 mm, Lettering field: 10.5 x 12.15 mm

## Feed-through terminal block - ST 16 BU - 3036152

### Accessories

#### Marker for terminal blocks - UC-TM 12 CUS - 0824613



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: 12 mm, Lettering field: 11.45 x 10.5 mm

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#### Marker for terminal blocks - UCT-TM 12 CUS - 0829630



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: 12 mm, Lettering field: 10.8 x 9.6 mm

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#### Zack Marker strip, flat - ZBF 12 CUS - 0825018



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: 12 mm, Lettering field: 5.15 x 12.15 mm

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#### Marker for terminal blocks - UC-TMF 12 CUS - 0824670



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: 12 mm, Lettering field: 11.45 x 5.1 mm

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#### Marker for terminal blocks - UCT-TMF 12 CUS - 0829686



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: 12 mm, Lettering field: 11.2 x 4.7 mm

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### Reducing bridge

## Feed-through terminal block - ST 16 BU - 3036152

### Accessories

Reducing bridge - RB ST 16-(2,5/4) - 3030886



Reducing bridge, Pitch: 11 mm, Number of positions: 2, Color: red

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Reducing bridge - RB 16-6 - 3047072



Reducing bridge, Pitch: 6 mm, Number of positions: 2, Color: red

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Reducing bridge - RB PTPOWER 35-ST 16 - 3032170



Reducing bridge, for bridging of PTPOWER 35 to ST or PT ..N terminal blocks with 16 mm<sup>2</sup> nominal cross section, Pitch: 14.5 mm, Length: 5 mm, Width: 22.9 mm, Number of positions: 2, Color: red

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### Screwdriver tools

Screwdriver - SZF 3-1,0X5,5 - 1206612



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 1.0 x 5.5 x 150 mm, 2-component grip, with non-slip grip

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### Terminal marking

Zack marker strip - ZB 12:UNPRINTED - 0812120



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, for terminal block width: 12.2 mm, Lettering field: 12 x 10.5 mm

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## Feed-through terminal block - ST 16 BU - 3036152

### Accessories

#### Marker for terminal blocks - UC-TM 12 - 0819194



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, for terminal block width: 12 mm, Lettering field: 11.45 x 10.5 mm

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#### Marker for terminal blocks - UCT-TM 12 - 0829144



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK PRIME, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, Mounting type: Snap into tall marker groove, for terminal block width: 12 mm, Lettering field: 10.8 x 9.6 mm

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#### Zack Marker strip, flat - ZBF 12:UNBEDRUCKT - 0809735



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: 12 mm, Lettering field: 5.15 x 12.15 mm

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#### Marker for terminal blocks - UC-TMF 12 - 0819233



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into flat marker groove, for terminal block width: 12 mm, Lettering field: 11.45 x 5.1 mm

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#### Marker for terminal blocks - UCT-TMF 12 - 0829214



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK PRIME, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, Mounting type: Snap into flat marker groove, for terminal block width: 12 mm, Lettering field: 11.2 x 4.7 mm

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#### Test plug terminal block

## Feed-through terminal block - ST 16 BU - 3036152

### Accessories

Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, Color: silver

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