

## Distribution block - PTFIX 4X1,5 GY - 1046608

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Distribution block, bridged internally. The blocks can be bridged with one another via the conductor shaft. For corresponding plug-in bridges, see accessories, nom. voltage: 450 V, nominal current: 17.5 A, connection method: Push-in connection, number of connections: 4, cross section: 0.14 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, AWG: 26 - 14, width: 8.3 mm, height: 17.7 mm, color: gray, mounting type: for snapping onto a DIN rail adapter

### Your advantages

- ✓ Space-saving, thanks to the compact design
- ✓ Flexible use, thanks to direct mounting with flange covers from accessories
- ✓ Space-saving potential distribution, thanks to compact micro potential distributors
- ✓ Convenient test options, thanks to test openings at every terminal point
- ✓ Clear arrangement thanks to marking of all terminal points



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 30 pc                                                                                                   |
| Minimum order quantity               | 30 pc                                                                                                   |
| GTIN                                 | <br>4 055626 643502 |
| GTIN                                 | 4055626643502                                                                                           |
| Weight per Piece (excluding packing) | 3.630 g                                                                                                 |
| Custom tariff number                 | 85369010                                                                                                |
| Country of origin                    | Poland                                                                                                  |

### Technical data

#### General

|                       |                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Note                  | Notes on operation The blocks can be bridged with one another via the conductor shaft. For corresponding plug-in bridges, see accessories |
| Number of levels      | 1                                                                                                                                         |
| Number of connections | 4                                                                                                                                         |
| Potentials            | 1                                                                                                                                         |
| Nominal cross section | 1.5 mm <sup>2</sup>                                                                                                                       |
| Color                 | gray                                                                                                                                      |
| Insulating material   | PA                                                                                                                                        |

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## Technical data

### General

|                                                                                           |                                             |
|-------------------------------------------------------------------------------------------|---------------------------------------------|
| Flammability rating according to UL 94                                                    | V0                                          |
| Rated surge voltage                                                                       | 6 kV                                        |
| Degree of pollution                                                                       | 3                                           |
| Overvoltage category                                                                      | III                                         |
| Insulating material group                                                                 | I                                           |
| Maximum power dissipation for nominal condition                                           | 0.56 W                                      |
| Maximum load current                                                                      | 22 A                                        |
| Maximum total current                                                                     | 26 A                                        |
| Nominal current $I_N$                                                                     | 17.5 A                                      |
| Nominal voltage $U_N$                                                                     | 450 V                                       |
| Open side panel                                                                           | No                                          |
| 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                                 |
| 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                                               | 0.14 mm <sup>2</sup> / 0.2 kg               |
|                                                                                           | 1.5 mm <sup>2</sup> / 0.4 kg                |
|                                                                                           | 2.5 mm <sup>2</sup> / 0.7 kg                |
| Result of tight fit on support                                                            | Test passed                                 |
| Tight fit on carrier                                                                      | NS 35/NS 15                                 |
| Setpoint                                                                                  | 1 N                                         |
| Result of temperature-rise test                                                           | Test passed                                 |
| Short circuit stability result                                                            | Test passed                                 |
| Conductor cross section short circuit testing                                             | 1.5 mm <sup>2</sup>                         |
| Short-time current                                                                        | 0.18 kA                                     |
| Conductor cross section short circuit testing                                             | 2.5 mm <sup>2</sup>                         |
| Short-time current                                                                        | 0.3 kA                                      |
| Result of thermal test                                                                    | Test passed                                 |
| Ageing test for screwless modular terminal block temperature cycles                       | 192                                         |
| Proof of thermal characteristics (needle flame) effective duration                        | 30 s                                        |
| Result of aging test                                                                      | Test passed                                 |
| Oscillation, broadband noise test result                                                  | Test passed                                 |
| Test specification, oscillation, broadband noise                                          | DIN EN 50155 (VDE 0115-200):2018-05         |
| Test spectrum                                                                             | Service life test category 2, bogie-mounted |

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## Technical data

### General

|                                                                         |                                                |
|-------------------------------------------------------------------------|------------------------------------------------|
| Test frequency                                                          | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level                                                               | $6.12 \text{ (m/s}^2\text{)}^2/\text{Hz}$      |
| Acceleration                                                            | 3.12 g                                         |
| Test duration per axis                                                  | 5 h                                            |
| Test directions                                                         | X-, Y- and Z-axis                              |
| Shock test result                                                       | Test passed                                    |
| Test specification, shock test                                          | DIN EN 50155 (VDE 0115-200):2018-05            |
| 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                                         |
| 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  | 8.3 mm  |
| Length | 21.6 mm |
| Height | 17.7 mm |

### Connection data

|                                    |                      |
|------------------------------------|----------------------|
| Connection method                  | Push-in connection   |
| Stripping length                   | 8 mm ... 10 mm       |
| Connection in acc. with standard   | IEC 60998-2-2        |
| Conductor cross section solid min. | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max. | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.   | 26                   |

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### Technical data

#### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Conductor cross section AWG max.                                           | 14                   |
| 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                                 | 24                   |
| Max. AWG conductor cross section, flexible                                 | 12                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 1.5 mm <sup>2</sup>  |
| Internal cylindrical gage                                                  | A1 / B1              |

#### Standards and Regulations

|                                                        |               |
|--------------------------------------------------------|---------------|
| Connection in acc. with standard                       | IEC 60998-2-2 |
| Flammability rating according to UL 94                 | V0            |
| 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   |

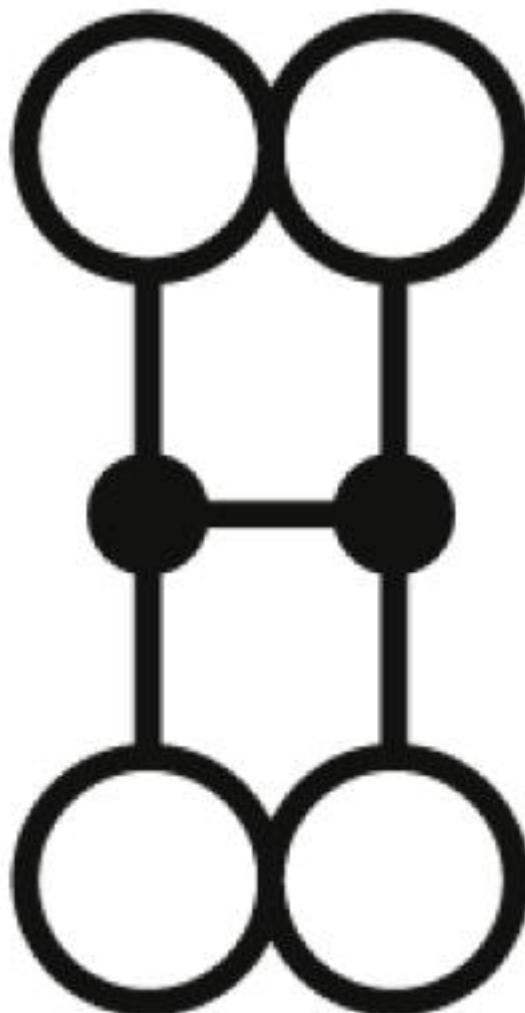
#### Environmental Product Compliance

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

### Drawings

## Distribution block - PTFIX 4X1,5 GY - 1046608

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 | 27141100 |
| eCl@ss 7.0 | 27141120 |
| eCl@ss 8.0 | 27141120 |
| eCl@ss 9.0 | 27141120 |

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000897 |
| ETIM 6.0 | EC000897 |
| ETIM 7.0 | EC000897 |

#### 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

CSA / cUL Recognized / EAC / IECCEB Scheme / VDE Zeichengenehmigung / DNV GL / UL Recognized / cULus Recognized

#### Ex Approvals

#### Approval details

|                            |                                                                                     |                                                                                                                                         |       |
|----------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                        |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                            | B                                                                                   | C                                                                                                                                       | D     |
| Nominal voltage UN         | 300 V                                                                               | 150 V                                                                                                                                   | 300 V |
| Nominal current IN         | 20 A                                                                                | 20 A                                                                                                                                    | 10 A  |
| mm <sup>2</sup> /AWG/kcmil | 26-12                                                                               | 26-12                                                                                                                                   | 26-12 |

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### Approvals

|                    |                                                                                   |                                                                                                                                                       |              |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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                                                                                                                                                     | D            |
| Nominal voltage UN | 300 V                                                                             | 150 V                                                                                                                                                 | 300 V        |
| Nominal current IN | 15 A                                                                              | 15 A                                                                                                                                                  | 10 A         |
| mm²/AWG/kcmil      | 26-14                                                                             | 26-14                                                                                                                                                 | 26-14        |

|     |                                                                                   |                          |
|-----|-----------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.AI30.B.01102 |
|-----|-----------------------------------------------------------------------------------|--------------------------|

|                    |                                                                                   |                                                           |           |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-61977 |
|                    |                                                                                   |                                                           |           |
| Nominal voltage UN |                                                                                   | 450 V                                                     |           |
| Nominal current IN |                                                                                   | 17.5 A                                                    |           |
| mm²/AWG/kcmil      |                                                                                   | 1.5                                                       |           |

|                        |                                                                                     |                                                                                                                                                                                                           |          |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Zeichengenehmigung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40047798 |
|                        |                                                                                     |                                                                                                                                                                                                           |          |
| Nominal voltage UN     |                                                                                     | 450 V                                                                                                                                                                                                     |          |
| Nominal current IN     |                                                                                     | 17.5 A                                                                                                                                                                                                    |          |
| mm²/AWG/kcmil          |                                                                                     | 0.2-1.5                                                                                                                                                                                                   |          |

|                    |                                                                                     |                                                                                   |            |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|
| DNV GL             |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE00002TT |
|                    |                                                                                     |                                                                                   |            |
| Nominal voltage UN |                                                                                     | 500 V                                                                             |            |
| Nominal current IN |                                                                                     | 24 A                                                                              |            |

|                    |                                                                                     |                                                                                                                                                       |              |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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                                                                                                                                                     | D            |
| Nominal voltage UN | 300 V                                                                               | 150 V                                                                                                                                                 | 300 V        |
| Nominal current IN | 20 A                                                                                | 20 A                                                                                                                                                  | 10 A         |

## Distribution block - PTFIX 4X1,5 GY - 1046608

### Approvals

|               | B     | C     | D     |
|---------------|-------|-------|-------|
| mm²/AWG/kcmil | 26-12 | 26-12 | 26-12 |

cULus Recognized



### Accessories

#### Accessories

##### Insulating sleeve

Insulating sleeve - ISH 1,5/0,2 - 3206131



Insulating sleeve, color: white

Insulating sleeve - ISH 1,5/0,5 - 3031034



Insulating sleeve, color: gray

#### Jumper

Plug-in bridge - FBS 2-4 - 3030116



Plug-in bridge, pitch: 4.2 mm, number of positions: 2, color: red

Plug-in bridge - FBS 2-4 GY - 3030118



Plug-in bridge, pitch: 4.2 mm, number of positions: 2, color: gray

## Distribution block - PTFIX 4X1,5 GY - 1046608

### Accessories

Plug-in bridge - FBS 2-4 BU - 3030117



Plug-in bridge, pitch: 4.2 mm, number of positions: 2, color: blue

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### Labeled terminal marker

Marker card - SK 3,8 REEL P4,15 WH CUS - 0825990



Marker card, Card, can be ordered: By card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 4.15 mm, lettering field size: continuous x 3.8 mm

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Marker card - SK 2,8 REEL P5,2 WH CUS - 8199986



Marker card, Card, can be ordered: By card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 5.2 mm, lettering field size: continuous x 2.8 mm

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Marker card - SK 3,8 REEL P5,2 WH CUS - 8199989



Marker card, Card, can be ordered: By card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 5.2 mm, lettering field size: continuous x 3.8 mm

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### Mounting material

Flange - PTFIX 1,5-F - 1049503



Flange, with screw-on fixing, width: 7.7 mm, height: 17.7 mm, color: gray, mounting type: Screw mounting

## Distribution block - PTFIX 4X1,5 GY - 1046608

### Accessories

DIN rail adapter - PTFIX 1,5-NS15A - 1049500



DIN rail adapter, width: 8 mm

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DIN rail adapter - PTFIX 1,5-NS35 - 1049497



DIN rail adapter, length: 58.1 mm, width: 21.6 mm, height: 11 mm

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Support bracket - PTFIX 1,5-NS35AD - 1049498



Support bracket, width: 8 mm

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Assembly adapters - PTFIX 1,5-RZF - 1050613



Adapter for direct mounting

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### Terminal marking

Marking foil for zack marker strip - TML (EX3,8)R - 0801837



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30000 x 3.8 mm, Number of individual labels: 1

## Distribution block - PTFIX 4X1,5 GY - 1046608

### Accessories

#### Marking foil for zack marker strip - TML (104X3,8)R - 0801833



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 3.8 mm, Number of individual labels: 2500

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#### Marking foil for zack marker strip - TML (104X3,8)R - 0801833



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 3.8 mm, Number of individual labels: 2500

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#### Marking foil for zack marker strip - TML (104X2,8)R - 0801832



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 2.8 mm, Number of individual labels: 2500

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#### Marking foil for zack marker strip - TML (EX3,8)R - 0801837



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30000 x 3.8 mm, Number of individual labels: 1

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#### Marking foil for zack marker strip - TML (EX2,8)R - 0801836



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30000 x 2.8 mm, Number of individual labels: 1

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### Accessories

#### Marker for terminal blocks - US-TML (104X3,8) - 0830768



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 3.8 mm, Number of individual labels: 22

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#### Marker for terminal blocks - US-TML (104X2,8) - 0830767



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 2.8 mm, Number of individual labels: 26

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#### Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

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#### Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 2.8 mm, Number of individual labels: 3600

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### Test plug terminal block

#### Accessories - MPS-MT 1-S4-B RD - 1982800



Accessories