

## Distribution block - PTFIX 4/12X1,5-NS15A PK - 1046995

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Distribution block, nom. voltage: 500 V, nominal current: 17.5 A, connection method: Push-in connection, Push-in connection, number of connections: 13, cross section: 0.14 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, AWG: 26 - 14, width: 31.4 mm, color: pink, mounting type: NS 15

RoHS

COMPLIANT

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 20 pc                                                                                                   |
| GTIN         | <br>4 055626 669205 |
| GTIN         | 4055626669205                                                                                           |

### Technical data

#### General

|                                        |                                                           |
|----------------------------------------|-----------------------------------------------------------|
| Number of levels                       | 1                                                         |
| Number of connections                  | 13                                                        |
| Nominal cross section                  | 1.5 mm <sup>2</sup>                                       |
| Nominal cross section feed-in          | 4 mm <sup>2</sup>                                         |
| Color                                  | pink                                                      |
| Insulating material                    | PA                                                        |
| Flammability rating according to UL 94 | V0                                                        |
| Rated surge voltage                    | 6 kV                                                      |
| Degree of pollution                    | 3                                                         |
| Overvoltage category                   | III                                                       |
| Insulating material group              | I                                                         |
| Maximum load current                   | 22 A (with a 2.5 mm <sup>2</sup> conductor cross section) |
| Maximum total current                  | 32 A                                                      |
| Nominal current I <sub>N</sub>         | 17.5 A                                                    |
| Nominal voltage U <sub>N</sub>         | 500 V                                                     |
| Maximum load current                   | 41 A (with 6 mm <sup>2</sup> conductor cross section)     |
| Maximum total current                  | 41 A                                                      |

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## Technical data

### General

|                                                                                           |                                                                        |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Nominal current $I_N$                                                                     | 41 A                                                                   |
| Open side panel                                                                           | No                                                                     |
| 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                                                        |
| 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                                               | 0.2 mm <sup>2</sup> / 0.2 kg                                           |
|                                                                                           | 4 mm <sup>2</sup> / 0.9 kg                                             |
|                                                                                           | 6 mm <sup>2</sup> / 1.4 kg                                             |
|                                                                                           | 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                                           |
| Tensile test result                                                                       | Test passed                                                            |
| Result of tight fit on support                                                            | Test passed                                                            |
| Tight fit on carrier                                                                      | NS 35/NS 15                                                            |
| Setpoint                                                                                  | 5 N                                                                    |
| Result of voltage-drop test                                                               | Test passed                                                            |
| Result of temperature-rise test                                                           | Test passed                                                            |
| Requirement temperature-rise test                                                         | Increase in temperature $\leq 45$ K                                    |
| Short circuit stability result                                                            | Test passed                                                            |
| Conductor cross section short circuit testing                                             | 4 mm <sup>2</sup>                                                      |
| Short-time current                                                                        | 0.48 kA                                                                |
| Conductor cross section short circuit testing                                             | 6 mm <sup>2</sup>                                                      |
| Short-time current                                                                        | 0.72 kA                                                                |
| 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                                                            |

# Distribution block - PTFIX 4/12X1,5-NS15A PK - 1046995

## Technical data

### General

|                                                                         |                                                |
|-------------------------------------------------------------------------|------------------------------------------------|
| 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    |
| Test frequency                                                          | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level                                                               | $6.12 \text{ (m/s}^2\text{)}/\text{Hz}$        |
| 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                                         |
| 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)                        | 27,5 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        | 31.4 mm |
| Length       | 21.6 mm |
| Height NS 15 | 27.4 mm |

### Connection data

|                                    |                      |
|------------------------------------|----------------------|
| Connection method                  | Push-in connection   |
| Stripping length                   | 8 mm ... 10 mm       |
| Connection in acc. with standard   | IEC 60947-7-1        |
| Conductor cross section solid min. | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max. | 2.5 mm <sup>2</sup>  |

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### Technical data

#### Connection data

|                                                                            |                                          |
|----------------------------------------------------------------------------|------------------------------------------|
| Conductor cross section AWG min.                                           | 26                                       |
| 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                                 | 26                                       |
| Max. AWG conductor cross section, flexible                                 | 14                                       |
| 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>                      |
| Connection cross sections directly pluggable                               | 0.34 mm <sup>2</sup> 2.5 mm <sup>2</sup> |
| Conductor cross section solid min.                                         | 0.34 mm <sup>2</sup>                     |
| Conductor cross section solid max.                                         | 2.5 mm <sup>2</sup>                      |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.34 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.    | 0.34 mm <sup>2</sup>                     |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 1.5 mm <sup>2</sup>                      |
| Internal cylindrical gage                                                  | A3                                       |
| Connection                                                                 | Feed-in stage                            |
| Connection method                                                          | Push-in connection                       |
| Stripping length                                                           | 10 mm ... 12 mm                          |
| 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.                                         | 6 mm <sup>2</sup>                        |
| Conductor cross section AWG min.                                           | 24                                       |
| Conductor cross section AWG max.                                           | 10                                       |
| Conductor cross section flexible min.                                      | 0.2 mm <sup>2</sup>                      |
| Conductor cross section flexible max.                                      | 4 mm <sup>2</sup>                        |
| Min. AWG conductor cross section, flexible                                 | 24                                       |
| Max. AWG conductor cross section, flexible                                 | 10                                       |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.2 mm <sup>2</sup>                      |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 4 mm <sup>2</sup>                        |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.2 mm <sup>2</sup>                      |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 4 mm <sup>2</sup>                        |

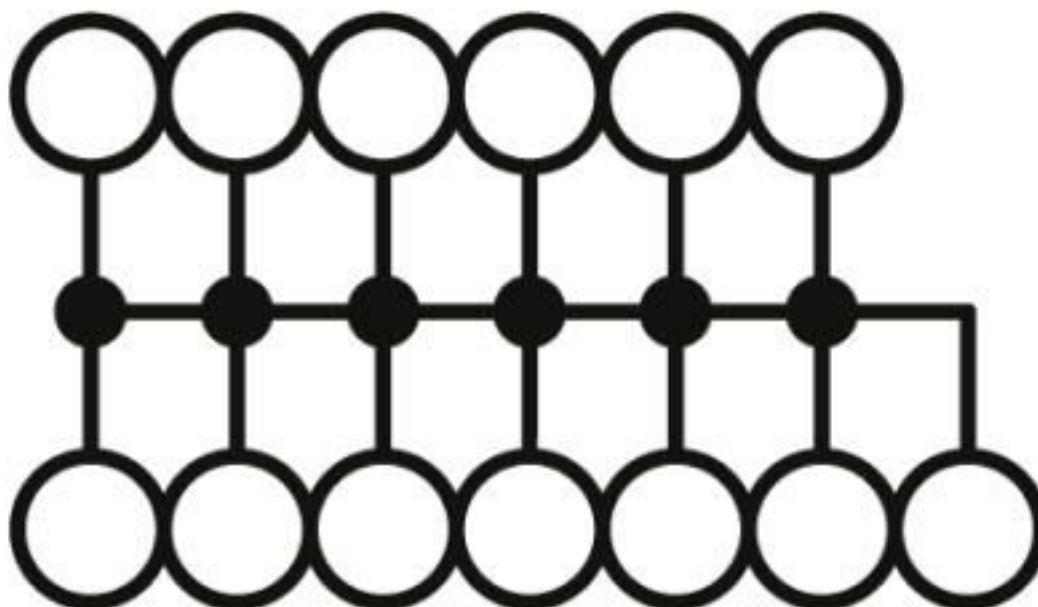
#### Standards and Regulations

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

### Drawings

## Distribution block - PTFIX 4/12X1,5-NS15A PK - 1046995

Circuit diagram



### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141120 |
| eCl@ss 8.0    | 27141120 |
| eCl@ss 9.0    | 27141120 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC000897 |
| ETIM 6.0 | EC000897 |
| ETIM 7.0 | EC000897 |

### Approvals

#### Approvals

#### Approvals

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

#### Ex Approvals

#### Approval details

## Distribution block - PTFIX 4/12X1,5-NS15A PK - 1046995

### Approvals

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

|                    |                                                                                   |                                                                                                                                                       |              |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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                                                                                                                                                     |              |
| Nominal voltage UN | 300 V                                                                             | 150 V                                                                                                                                                 |              |
| Nominal current IN | 30 A                                                                              | 30 A                                                                                                                                                  |              |
| mm²/AWG/kcmil      | 24-10                                                                             | 24-10                                                                                                                                                 |              |

|                    |                                                                                   |                                                                                                                                                       |              |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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                                                                                                                                                     |              |
| Nominal voltage UN | 300 V                                                                             | 150 V                                                                                                                                                 |              |
| Nominal current IN | 30 A                                                                              | 30 A                                                                                                                                                  |              |
| mm²/AWG/kcmil      | 24-10                                                                             | 24-10                                                                                                                                                 |              |

|                    |                                                                                     |                                                                                                                                         |       |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    | B                                                                                   | C                                                                                                                                       |       |
| Nominal voltage UN | 300 V                                                                               | 150 V                                                                                                                                   |       |
| Nominal current IN | 30 A                                                                                | 30 A                                                                                                                                    |       |
| mm²/AWG/kcmil      | 24-10                                                                               | 24-10                                                                                                                                   |       |

|                    |                                                                                     |                                                           |           |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-62701 |
|                    |                                                                                     |                                                           |           |
| Nominal voltage UN | 500 V                                                                               |                                                           |           |
| Nominal current IN | 32 A                                                                                |                                                           |           |
| mm²/AWG/kcmil      | 4                                                                                   |                                                           |           |

|                        |                                                                                     |                                                                                                                                                                                                           |          |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 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> | 40047797 |
|                        |                                                                                     |                                                                                                                                                                                                           |          |
| Nominal voltage UN     | 500 V                                                                               |                                                                                                                                                                                                           |          |

## Distribution block - PTFIX 4/12X1,5-NS15A PK - 1046995

### Approvals

|                                |         |
|--------------------------------|---------|
|                                |         |
| Nominal current I <sub>N</sub> | 32 A    |
| mm <sup>2</sup> /AWG/kcmil     | 0.2-1.5 |

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

|     |                                                                                   |  |                          |
|-----|-----------------------------------------------------------------------------------|--|--------------------------|
| EAC |  |  | RU C-<br>DE.BL08.B.00644 |
|-----|-----------------------------------------------------------------------------------|--|--------------------------|

|    |                                                                                    |                                                         |             |
|----|------------------------------------------------------------------------------------|---------------------------------------------------------|-------------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | LR2002627TA |
|----|------------------------------------------------------------------------------------|---------------------------------------------------------|-------------|

|    |                                                                                     |                                                                                                                                                                                                                               |             |
|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| BV |  | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a> | 59146/A0 BV |
|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|

|                  |                                                                                     |  |  |
|------------------|-------------------------------------------------------------------------------------|--|--|
| cULus Recognized |  |  |  |
|------------------|-------------------------------------------------------------------------------------|--|--|

### Accessories

#### Accessories

#### Insulating sleeve

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



Insulating sleeve, color: white

## Distribution block - PTFIX 4/12X1,5-NS15A PK - 1046995

### Accessories

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



Insulating sleeve, color: gray

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### Jumper

Plug-in bridge - FBS 2-4 - 3030116



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

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



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

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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



## Distribution block - PTFIX 4/12X1,5-NS15A PK - 1046995

### Accessories

Marker card - SK 2,8 REEL P4,15 WH CUS - 8199987



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 2.8#mm

Marker card - SK 3,8 REEL P4,15 WH CUS - 8199988



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

### 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

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

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

## Distribution block - PTFIX 4/12X1,5-NS15A PK - 1046995

### Accessories

#### 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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#### 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

## Distribution block - PTFIX 4/12X1,5-NS15A PK - 1046995

### Accessories

Label - MM-TML (EX3,8)R C1 WH/BK - 1092026



Label, Roll, white, unlabeled, can be labeled with: THERMOFOX, THERMOMARK GO, THERMOMARK GO.K, mounting type: adhesive, for terminal block width: 8000 mm, lettering field size: continuous x 3.8#mm

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### Test plug terminal block

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



Accessories, number of positions: 1, pitch: 0 mm

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