

## Distribution block - PTFIX 10/12X4-NS35 BK - 3273628

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Distribution block, nom. voltage: 800 V, nominal current: 32 A, connection method: Push-in connection, Push-in connection, number of connections: 13, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, AWG: 24 - 10, width: 28.6 mm, color: black, mounting type: NS 35/7,5, NS 35/15

### Your advantages

- ✓ Space savings of up to 50% on the DIN rail, thanks to transverse mounting
- ✓ Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting
- ✓ Time-saving conductor connection, thanks to tool-free Push-in direct connection technology
- ✓ Time savings of up to 80%, thanks to ready-to-mount blocks without manual bridging
- ✓ Clear wiring, thanks to eleven different color variants



### Key Commercial Data

|                        |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| Packing unit           | 8 pc                                                                                 |
| Minimum order quantity | 8 pc                                                                                 |
| GTIN                   |  |
| GTIN                   | 4055626667454                                                                        |

### Technical data

#### General

|                                        |                    |
|----------------------------------------|--------------------|
| Number of levels                       | 1                  |
| Number of connections                  | 13                 |
| Potentials                             | 1                  |
| Nominal cross section                  | 4 mm <sup>2</sup>  |
| Nominal cross section feed-in          | 10 mm <sup>2</sup> |
| Color                                  | black              |
| Insulating material                    | PA                 |
| Flammability rating according to UL 94 | V0                 |
| Rated surge voltage                    | 6 kV               |
| Degree of pollution                    | 3                  |

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## Technical data

### General

|                                                                                           |                                                                        |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Overvoltage category                                                                      | III                                                                    |
| Insulating material group                                                                 | I                                                                      |
| Maximum load current                                                                      | 63 A                                                                   |
| Maximum total current                                                                     | 63 A                                                                   |
| Nominal current $I_N$                                                                     | 32 A                                                                   |
| Nominal voltage $U_N$                                                                     | 800 V                                                                  |
|                                                                                           | 450 V                                                                  |
| 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                                                | 2 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                                               | 0.5 mm <sup>2</sup> / 0.3 kg                                           |
|                                                                                           | 10 mm <sup>2</sup> / 2 kg                                              |
|                                                                                           | 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                                             |
| Tensile test result                                                                       | Test passed                                                            |
| Result of tight fit on support                                                            | Test passed                                                            |
| Tight fit on carrier                                                                      | NS 35                                                                  |
| Setpoint                                                                                  | 5 N                                                                    |
| Result of voltage-drop test                                                               | Test passed                                                            |
| Result of temperature-rise test                                                           | Test passed                                                            |
| Requirement temperature-rise test                                                         | Increase in temperature ≤ 45 K                                         |
| Short circuit stability result                                                            | Test passed                                                            |
| Conductor cross section short circuit testing                                             | 10 mm <sup>2</sup>                                                     |
| Short-time current                                                                        | 1.2 kA                                                                 |
| Result of thermal test                                                                    | Test passed                                                            |
| Proof of thermal characteristics (needle flame) effective duration                        | 30 s                                                                   |

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### General

|                                                                         |                                                |
|-------------------------------------------------------------------------|------------------------------------------------|
| Result of aging test                                                    | Test passed                                    |
| Ageing test for screwless modular terminal block temperature cycles     | 192                                            |
| Oscillation, broadband noise test result                                | Test passed                                    |
| Test specification, oscillation, broadband noise                        | DIN EN 50155 (VDE 0115-200):2008-03            |
| Test spectrum                                                           | Service life test category 2, bogie-mounted    |
| Test frequency                                                          | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level                                                               | $6.12 \text{ (m/s}^2\text{)}^2/\text{Hz}$      |
| 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):2008-03            |
| 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)) | 130 °C                                         |
| Static insulating material application in cold                          | -60 °C                                         |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed                                         |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed                                         |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg                                       |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed                                         |
| Fire protection for rail vehicles (DIN EN 45545-2) R22                  | HL 1 - HL 3                                    |
| Fire protection for rail vehicles (DIN EN 45545-2) R23                  | HL 1 - HL 3                                    |
| Fire protection for rail vehicles (DIN EN 45545-2) R24                  | HL 1 - HL 3                                    |
| Fire protection for rail vehicles (DIN EN 45545-2) R26                  | HL 1 - HL 3                                    |

### Dimensions

|                  |         |
|------------------|---------|
| Width            | 28.6 mm |
| Length           | 58.1 mm |
| Height NS 35/7,5 | 32.4 mm |
| Height NS 15     | 30.4 mm |

### Connection data

|                                    |                     |
|------------------------------------|---------------------|
| 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>   |

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## Technical data

### Connection data

|                                                                                                        |                                             |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 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                                                             | 12                                          |
| 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>                           |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.5 mm <sup>2</sup>                         |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 1 mm <sup>2</sup>                           |
| Connection cross sections directly pluggable                                                           | 0.5 mm <sup>2</sup> 6 mm <sup>2</sup> 20 10 |
| Conductor cross section solid min.                                                                     | 0.5 mm <sup>2</sup>                         |
| Conductor cross section solid max.                                                                     | 6 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 0.75 mm <sup>2</sup>                        |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                             | 4 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 0.5 mm <sup>2</sup>                         |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 4 mm <sup>2</sup>                           |
| Internal cylindrical gage                                                                              | A4                                          |
| Connection                                                                                             | Feed-in stage                               |
| Connection method                                                                                      | Push-in connection                          |
| Stripping length                                                                                       | 12 mm ... 14 mm                             |
| Connection in acc. with standard                                                                       | IEC 60998-2-2                               |
| Conductor cross section solid min.                                                                     | 0.5 mm <sup>2</sup>                         |
| Conductor cross section solid max.                                                                     | 10 mm <sup>2</sup>                          |
| Conductor cross section AWG min.                                                                       | 20                                          |
| Conductor cross section AWG max.                                                                       | 6                                           |
| Conductor cross section flexible min.                                                                  | 0.5 mm <sup>2</sup>                         |
| Conductor cross section flexible max.                                                                  | 10 mm <sup>2</sup>                          |
| Min. AWG conductor cross section, flexible                                                             | 20                                          |
| Max. AWG conductor cross section, flexible                                                             | 8                                           |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 0.5 mm <sup>2</sup>                         |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                             | 10 mm <sup>2</sup>                          |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 0.5 mm <sup>2</sup>                         |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 10 mm <sup>2</sup>                          |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.5 mm <sup>2</sup>                         |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 4 mm <sup>2</sup>                           |

## Distribution block - PTFIX 10/12X4-NS35 BK - 3273628

### Technical data

#### Standards and Regulations

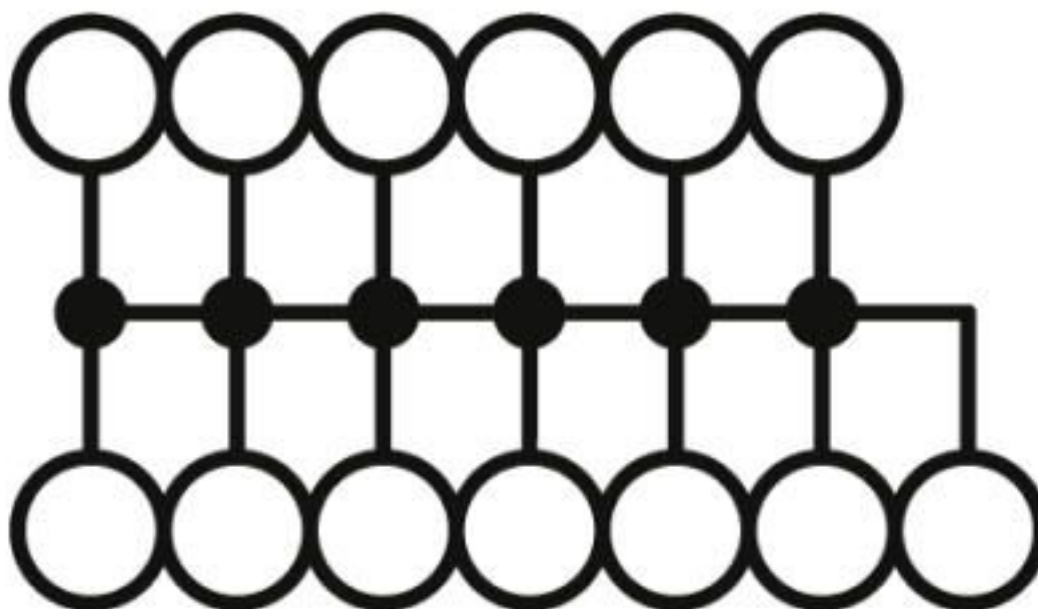
|                                        |               |
|----------------------------------------|---------------|
| Connection in acc. with standard       | IEC 60947-7-1 |
|                                        | IEC 60998-2-2 |
| Flammability rating according to UL 94 | V0            |

#### 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 10.0.1 | 27141120 |
| eCl@ss 11.0   | 27141120 |
| 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 |

## Distribution block - PTFIX 10/12X4-NS35 BK - 3273628

### 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 / UL Recognized / cUL Recognized / EAC / IECEE CB Scheme / VDE Zeichengenehmigung / EAC / 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                                                                                                                                       |       |
| Nominal voltage UN | 600 V                                                                               | 600 V                                                                                                                                   |       |
| Nominal current IN | 57 A                                                                                | 57 A                                                                                                                                    |       |
| mm²/AWG/kcmil      | 20-8                                                                                | 20-8                                                                                                                                    |       |

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### 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                                                                                                                                                     |              |
| Nominal voltage UN | 600 V                                                                             | 600 V                                                                                                                                                 |              |
| Nominal current IN | 57 A                                                                              | 57 A                                                                                                                                                  |              |
| mm²/AWG/kcmil      | 20-8                                                                              | 20-8                                                                                                                                                  |              |

|                    |                                                                                   |                                                                                                                                                       |              |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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 | 600 V                                                                             | 600 V                                                                                                                                                 |              |
| Nominal current IN | 57 A                                                                              | 57 A                                                                                                                                                  |              |
| mm²/AWG/kcmil      | 20-8                                                                              | 20-8                                                                                                                                                  |              |

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

|                    |                                                                                     |                                                           |           |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-62701 |
|                    |                                                                                     |                                                           |           |
| Nominal voltage UN | 800 V                                                                               |                                                           |           |
| Nominal current IN | 57 A                                                                                |                                                           |           |
| mm²/AWG/kcmil      | 10                                                                                  |                                                           |           |

|                        |                                                                                     |                                                                                                                                                                                                           |          |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 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     | 800 V                                                                               |                                                                                                                                                                                                           |          |
| Nominal current IN     | 57 A                                                                                |                                                                                                                                                                                                           |          |
| mm²/AWG/kcmil          | 0.2-4                                                                               |                                                                                                                                                                                                           |          |

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

## Distribution block - PTFIX 10/12X4-NS35 BK - 3273628

### Approvals

cULus Recognized



### Accessories

#### Accessories

##### Jumper

Plug-in bridge - FBS 2-6 - 3030336



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: red

Plug-in bridge - FBS 2-6 GY - 3032237



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: gray

Plug-in bridge - FBS 2-6 BU - 3036932



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: blue

### Labeled terminal marker

Marker card - SK 6,2/3,8:FORTL.ZAHLEN - 0804374



Marker card, Card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 6.2 mm, lettering field size: 6.2 x 3.8 mm

## Distribution block - PTFIX 10/12X4-NS35 BK - 3273628

### Accessories

Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 1-10 - 0804374:0001



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 1 ... 10, 10-section marker strips with 12 identical decades, white

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Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 11-20 - 0804374:0011



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 11 ... 20, 10-section marker strips with 12 identical decades, white

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Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 21-30 - 0804374:0021



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 21 ... 30, 10-section marker strips with 12 identical decades, white

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Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 31-40 - 0804374:0031



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 31 ... 40, 10-section marker strips with 12 identical decades, white

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Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 41-50 - 0804374:0041



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 41 ... 50, 10-section marker strips with 12 identical decades, white

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### Terminal marking

## Distribution block - PTFIX 10/12X4-NS35 BK - 3273628

### 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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#### 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 10/12X4-NS35 BK - 3273628

### 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 (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 (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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#### 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

# Mouser Electronics

Authorized Distributor

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