

## Distribution block - PTFIX 6/18X2,5 BU - 3273376

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Distribution block, Basic terminal block with supply, nom. voltage: 500 V, nominal current: 24 A, connection method: Push-in connection, Push-in connection, number of connections: 19, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, width: 56 mm, height: 21.2 mm, color: blue, mounting type: for snapping onto a DIN rail adapter, Adapter plate

The figure shows the product in gray

### Why buy this product

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

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 STK                                                                                                   |
| Minimum order quantity               | 8 STK                                                                                                   |
| GTIN                                 | <br>4 055626 392585 |
| GTIN                                 | 4055626392585                                                                                           |
| Weight per Piece (excluding packing) | 40.000 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         | 19                                                                                                                                        |
| Potentials                    | 1                                                                                                                                         |
| Nominal cross section         | 2.5 mm <sup>2</sup>                                                                                                                       |
| Nominal cross section feed-in | 6 mm <sup>2</sup>                                                                                                                         |

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## Technical data

### General

|                                                                    |                                                                                                       |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Color                                                              | blue                                                                                                  |
| 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 power dissipation for nominal condition                    | 1.31 W (the value is based on one connection block and is multiplied according to the pin assignment) |
| Maximum load current                                               | 24 A                                                                                                  |
| Nominal current $I_N$                                              | 24 A                                                                                                  |
| Nominal voltage $U_N$                                              | 500 V                                                                                                 |
| Maximum load current                                               | 57 A (with 10 mm <sup>2</sup> conductor cross section)                                                |
| Nominal current $I_N$                                              | 41 A (with 6 mm <sup>2</sup> conductor cross section)                                                 |
| Nominal voltage $U_N$                                              | 500 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 thermal test                                             | Test passed                                                                                           |
| Proof of thermal characteristics (needle flame) effective duration | 30 s                                                                                                  |
| 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 (m/s <sup>2</sup> ) <sup>2</sup> /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                                                                                                |

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### Technical data

#### General

|                                                                         |             |
|-------------------------------------------------------------------------|-------------|
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °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)                        | 28 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  | 56 mm   |
| Length | 28.2 mm |
| Height | 21.2 mm |

#### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Feed-in connection                                                         | Feed-in stage        |
| Connection method                                                          | Push-in connection   |
| 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.                                         | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.                                           | 26                   |
| Conductor cross section AWG max.                                           | 12                   |
| Conductor cross section flexible min.                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.                                      | 2.5 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. | 2.5 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.    | 2.5 mm <sup>2</sup>  |
| Stripping length                                                           | 8 mm ... 10 mm       |

## Distribution block - PTFIX 6/18X2,5 BU - 3273376

### Technical data

#### Connection data

|                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|
| Internal cylindrical gage                                                               | A3                  |
| Connection method                                                                       | Push-in connection  |
| 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.                                                        | 8                   |
| Conductor cross section flexible min.                                                   | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max.                                                   | 6 mm <sup>2</sup>   |
| Min. AWG conductor cross section, flexible                                              | 20                  |
| Max. AWG conductor cross section, flexible                                              | 10                  |
| 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.              | 6 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.                 | 6 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 1.5 mm <sup>2</sup> |
| Stripping length                                                                        | 10 mm ... 12 mm     |

#### Standards and Regulations

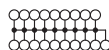
|                                                        |                                                 |
|--------------------------------------------------------|-------------------------------------------------|
| Connection in acc. with standard                       | IEC 60998-2-2                                   |
|                                                        | 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 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |

#### Environmental Product Compliance

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

### Drawings

#### Circuit diagram



## Distribution block - PTFIX 6/18X2,5 BU - 3273376

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141121 |
| eCl@ss 4.1 | 27141121 |
| eCl@ss 5.0 | 27141120 |
| eCl@ss 5.1 | 27141120 |
| eCl@ss 6.0 | 27141120 |
| eCl@ss 7.0 | 27141120 |
| eCl@ss 8.0 | 27141120 |
| eCl@ss 9.0 | 27141120 |

#### ETIM

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

#### UNSPSC

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

### Approvals

#### Approvals

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##### Approvals

UL Recognized / cUL Recognized / CSA / cULus Recognized

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##### Ex Approvals

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#### Approval details

## Distribution block - PTFIX 6/18X2,5 BU - 3273376

### 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                                                                                                                                                     | D            |
| mm²/AWG/kcmil      | 20-8                                                                              | 20-8                                                                                                                                                  | 20-8         |
| Nominal current IN | 50 A                                                                              | 50 A                                                                                                                                                  | 5 A          |
| Nominal voltage UN | 300 V                                                                             | 300 V                                                                                                                                                 | 600 V        |

|                    |                                                                                   |                                                                                                                                                       |              |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| cUL Recognized     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                    | B                                                                                 | C                                                                                                                                                     | D            |
| mm²/AWG/kcmil      | 20-8                                                                              | 20-8                                                                                                                                                  | 20-8         |
| Nominal current IN | 50 A                                                                              | 50 A                                                                                                                                                  | 5 A          |
| Nominal voltage UN | 300 V                                                                             | 300 V                                                                                                                                                 | 600 V        |

|                    |                                                                                     |                                                                                                                                         |       |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    | B                                                                                   | C                                                                                                                                       | D     |
| mm²/AWG/kcmil      | 20-8                                                                                | 20-8                                                                                                                                    | 20-8  |
| Nominal current IN | 50 A                                                                                | 50 A                                                                                                                                    | 5 A   |
| Nominal voltage UN | 300 V                                                                               | 300 V                                                                                                                                   | 600 V |

|                  |                                                                                     |                                                                                                                                                       |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| cULus 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> |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

### Accessories

#### Accessories

#### Filler plug

Filler plugs - CEC 2,5 - 3062757



Cover for conductor shaft, 10-pos., for spring cage terminal blocks (ST) and terminal blocks with push-in technology (PT) with a width of 5.2 mm

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### Accessories

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#### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



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Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



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Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue



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Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



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Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



## Distribution block - PTFIX 6/18X2,5 BU - 3273376

### Accessories

Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray



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Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



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Insulating sleeve - ISH 2,5/0,2 - 3002843



Insulating sleeve, color: white

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Insulating sleeve - ISH 2,5/0,5 - 3002856



Insulating sleeve, color: gray

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Insulating sleeve - ISH 2,5/1,0 - 3002869



Insulating sleeve, color: black

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### Jumper



## Distribution block - PTFIX 6/18X2,5 BU - 3273376

### Accessories

Plug-in bridge - FBS 2-5 - 3030161



Plug-in bridge, pitch: 5.2 mm, length: 22.7 mm, width: 9 mm, number of positions: 2, color: red

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Plug-in bridge - FBS 2-5 GN - 3032143



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: green

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Plug-in bridge - FBS 2-5 BU - 3036877



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: blue

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Plug-in bridge - FBS 2-5 GY - 3038969



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: gray

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### Labeled terminal marker

Marker card - SK 5/3,8:FORTL.ZAHLEN - 0804183



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: 5 mm, lettering field size: 5 x 3.8 mm

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## Distribution block - PTFIX 6/18X2,5 BU - 3273376

### Accessories

Marker card - SK 3,8 REEL P5 WH CUS - 0825124



Marker card, can be ordered: By card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: continuous x 3.8 mm

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### Marker carriers

Terminal strip marker carrier - KLM 2 - 0807575



Terminal strip marker carrier, gray, unlabeled, mounting type: Plug in, lettering field size: 20 mm x 8 mm

Terminal strip marker carrier - KLM 3-L - 0814788



Terminal strip marker carrier, height-adjustable, for end brackets CLIPFIX 15, CLIPFIX 35 and CLIPFIX 35-5, can be labeled with BMK...20 x 8 labels, or directly with the M-PEN or X-PEN

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### Mounting material

DIN rail adapter - PTFIX-NS35 - 3274054



DIN rail adapter, width: 28.6 mm, height: 11 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

DIN rail adapter - PTFIX-NS35A - 3274056



DIN rail adapter, width: 10.3 mm, height: 12 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

## Distribution block - PTFIX 6/18X2,5 BU - 3273376

### Accessories

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#### DIN rail adapter - PTFIX-NS35A-FIX - 3274057



DIN rail adapter, with end stop function, width: 10.3 mm, height: 12 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

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#### DIN rail adapter - PTFIX-NS15A - 3274058



DIN rail adapter, width: 10.3 mm, height: 10.8 mm, color: gray, mounting type: NS 15

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#### DIN rail adapter - PTFIX-NS15A-FIX - 3274059



DIN rail adapter, with end stop function, width: 10.3 mm, height: 10.8 mm, color: gray, mounting type: NS 15

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#### Flange - PTFIX-F - 3274060



Flange, with screw-on fixing, length: 28.6 mm, width: 8.6 mm, height: 21.7 mm, color: gray

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### Screwdriver tools

#### Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

## Distribution block - PTFIX 6/18X2,5 BU - 3273376

### Accessories

#### 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, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30,000 x 3.8 mm

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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, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 3.8 mm

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#### Test plug terminal block

Test plugs - MPS-MT SN - 3212251



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, tin-plated surface, color: silver

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Test plugs - MPS-MT - 0201744



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

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#### Test socket

## Distribution block - PTFIX 6/18X2,5 BU - 3273376

### Accessories

Test adapter - PAI-4-N GY - 3032871



4 mm test adapter, for terminal blocks with 5.2 mm, 6.2 mm and 8.2 mm pitch

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Test plugs - MPS-MT 1-S - 1944372



Test plugs, consisting of Ø 1 mm test pin, 150 mm conductor length, and Ø 2 mm socket

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