

## Distribution block - PTFIX 6X2,5-NS15A BK - 3274114

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Distribution block, Block with horizontal alignment, nom. voltage: 690 V, nominal current: 24 A, connection method: Push-in connection, number of connections: 6, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, width: 16 mm, color: black, mounting type: NS 15

### Your advantages

- ✓ 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

RoHS

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 10 pc                                                                                                   |
| Minimum order quantity               | 10 pc                                                                                                   |
| GTIN                                 | <br>4 055626 393483 |
| GTIN                                 | 4055626393483                                                                                           |
| Weight per Piece (excluding packing) | 13.640 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 | 6                                                                                                                                         |
| Potentials            | 1                                                                                                                                         |
| Nominal cross section | 2.5 mm <sup>2</sup>                                                                                                                       |
| Color                 | black                                                                                                                                     |
| Insulating material   | PA                                                                                                                                        |

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## Technical data

### General

|                                                                                           |                                                                                                       |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Flammability rating according to UL 94                                                    | V0                                                                                                    |
| Rated surge voltage                                                                       | 6 kV                                                                                                  |
| Degree of pollution                                                                       | 3                                                                                                     |
| Overvoltage category                                                                      | III                                                                                                   |
| Insulating material group                                                                 | I                                                                                                     |
| Maximum power dissipation for nominal condition                                           | 0.77 W (the value is based on one connection block and is multiplied according to the pin assignment) |
| Maximum load current                                                                      | 32 A                                                                                                  |
| Nominal current $I_N$                                                                     | 24 A                                                                                                  |
| Nominal voltage $U_N$                                                                     | 690 V                                                                                                 |
| Open side panel                                                                           | No                                                                                                    |
| Shock protection test specification                                                       | DIN EN 50274 (VDE 0660-514):2002-11                                                                   |
| Back of the hand protection                                                               | guaranteed                                                                                            |
| Finger protection                                                                         | guaranteed                                                                                            |
| Result of surge voltage test                                                              | Test passed                                                                                           |
| Surge voltage test setpoint                                                               | 9.8 kV                                                                                                |
| Result of power-frequency withstand voltage test                                          | Test passed                                                                                           |
| Power frequency withstand voltage setpoint                                                | 1.89 kV                                                                                               |
| Result of the test for mechanical stability of terminal points (5 x conductor connection) | Test passed                                                                                           |
| Result of bending test                                                                    | Test passed                                                                                           |
| Bending test rotation speed                                                               | 10 rpm                                                                                                |
| Bending test turns                                                                        | 135                                                                                                   |
| Bending test conductor cross section/weight                                               | 0.14 mm <sup>2</sup> / 0.2 kg                                                                         |
|                                                                                           | 2.5 mm <sup>2</sup> / 0.7 kg                                                                          |
|                                                                                           | 4 mm <sup>2</sup> / 0.9 kg                                                                            |
| Tensile test result                                                                       | Test passed                                                                                           |
| Conductor cross section tensile test                                                      | 0.14 mm <sup>2</sup>                                                                                  |
| Tractive force setpoint                                                                   | 10 N                                                                                                  |
| Conductor cross section tensile test                                                      | 2.5 mm <sup>2</sup>                                                                                   |
| Tractive force setpoint                                                                   | 50 N                                                                                                  |
| Conductor cross section tensile test                                                      | 4 mm <sup>2</sup>                                                                                     |
| Tractive force setpoint                                                                   | 60 N                                                                                                  |
| Result of tight fit on support                                                            | Test passed                                                                                           |
| Tight fit on carrier                                                                      | NS 35                                                                                                 |
| Setpoint                                                                                  | 1 N                                                                                                   |
| Result of voltage-drop test                                                               | Test passed                                                                                           |
| Requirements, voltage drop                                                                | ≤ 3.2 mV                                                                                              |
| Result of temperature-rise test                                                           | Test passed                                                                                           |
| Short circuit stability result                                                            | Test passed                                                                                           |
| Conductor cross section short circuit testing                                             | 2.5 mm <sup>2</sup>                                                                                   |

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## Technical data

### General

|                                                                         |                                                  |
|-------------------------------------------------------------------------|--------------------------------------------------|
| Short-time current                                                      | 0.3 kA                                           |
| Conductor cross section short circuit testing                           | 4 mm <sup>2</sup>                                |
| Short-time current                                                      | 0.48 kA                                          |
| Result of thermal test                                                  | Test passed                                      |
| Ageing test for screwless modular terminal block temperature cycles     | 192                                              |
| Proof of thermal characteristics (needle flame) effective duration      | 30 s                                             |
| Result of aging test                                                    | Test passed                                      |
| Oscillation, broadband noise test result                                | Test passed                                      |
| Test specification, oscillation, broadband noise                        | DIN EN 50155 (VDE 0115-200):2008-03              |
| Test spectrum                                                           | Service life test category 2, bogie-mounted      |
| Test frequency                                                          | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 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                                           |
| 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

## Distribution block - PTFIX 6X2,5-NS15A BK - 3274114

### Technical data

#### Dimensions

|              |         |
|--------------|---------|
| Width        | 16 mm   |
| Length       | 28.6 mm |
| Height NS 15 | 31.4 mm |

#### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Connection method                                                          | Push-in connection   |
| 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.                                         | 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       |
| Internal cylindrical gage                                                  | A3                   |

#### Standards and Regulations

|                                                        |               |
|--------------------------------------------------------|---------------|
| Connection in acc. with standard                       | IEC 60947-7-1 |
| Flammability rating according to UL 94                 | V0            |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3   |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3   |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3   |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3   |

#### Environmental Product Compliance

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

### Drawings

#### Circuit diagram



## Distribution block - PTFIX 6X2,5-NS15A BK - 3274114

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141121 |
| eCl@ss 4.1 | 27141121 |
| eCl@ss 5.0 | 27141120 |
| eCl@ss 5.1 | 27141120 |
| eCl@ss 6.0 | 27141100 |
| eCl@ss 7.0 | 27141120 |
| eCl@ss 8.0 | 27141120 |
| eCl@ss 9.0 | 27141120 |

#### 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

#### Approvals

DNV GL / CSA / EAC

#### Ex Approvals

#### Approval details

|                    |                                                                                     |                                                                           |            |
|--------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------|
| DNV GL             |  | <a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a> | TAE00002TT |
| Nominal voltage UN | 500 V                                                                               |                                                                           |            |
| Nominal current IN | 24 A                                                                                |                                                                           |            |

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### Approvals

|                    |                                                                                   |                                                                                                                                         |       |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    | D                                                                                 | B                                                                                                                                       | C     |
| Nominal voltage UN | 600 V                                                                             | 300 V                                                                                                                                   | 300 V |
| Nominal current IN | 5 A                                                                               | 20 A                                                                                                                                    | 20 A  |
| mm²/AWG/kcmil      | 26-12                                                                             | 26-12                                                                                                                                   | 26-12 |

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

### 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

##### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



## Distribution block - PTFIX 6X2,5-NS15A BK - 3274114

### Accessories

Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue



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Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



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Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



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Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray



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Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



## Distribution block - PTFIX 6X2,5-NS15A BK - 3274114

### Accessories

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

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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## Distribution block - PTFIX 6X2,5-NS15A BK - 3274114

### Accessories

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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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

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## Distribution block - PTFIX 6X2,5-NS15A BK - 3274114

### Accessories

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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### 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

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### Terminal marking

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



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

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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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### Accessories

Test plugs - MPS-MT 1-S - 1944372



Test plug, consisting of 1.0 mm Ø test pin and 2.0 mm Ø socket

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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: gray

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Test socket

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