

## Distribution block - PTFIX 8X1,5-NS15A BU - 3002920

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Distribution block, bridged internally. The blocks can be bridged with one another via the conductor shaft. For corresponding plug-in bridges, see accessories, nom. voltage: 500 V, nominal current: 17.5 A, connection method: Push-in connection, number of connections: 8, cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 16, width: 16.8 mm, color: blue, mounting type: NS 15

### Your advantages

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



### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 20 pc                                                                                                   |
| Minimum order quantity | 20 pc                                                                                                   |
| GTIN                   | <br>4 055626 433332 |
| GTIN                   | 4055626433332                                                                                           |

### 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 |
|                                        | Notes on operation The D-PTFIX 1,5 cover (accessory) must be placed on the end of the terminal strip                                      |
| Number of levels                       | 1                                                                                                                                         |
| Number of connections                  | 8                                                                                                                                         |
| Potentials                             | 1                                                                                                                                         |
| Nominal cross section                  | 1.5 mm <sup>2</sup>                                                                                                                       |
| Color                                  | blue                                                                                                                                      |
| Insulating material                    | PA                                                                                                                                        |
| Flammability rating according to UL 94 | V0                                                                                                                                        |

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## Technical data

### General

|                                                                                           |                                             |
|-------------------------------------------------------------------------------------------|---------------------------------------------|
| Rated surge voltage                                                                       | 6 kV                                        |
| Degree of pollution                                                                       | 3                                           |
| Overvoltage category                                                                      | III                                         |
| Insulating material group                                                                 | I                                           |
| Maximum power dissipation for nominal condition                                           | 0.56 W                                      |
| Maximum load current                                                                      | 17.5 A                                      |
| Nominal current $I_N$                                                                     | 17.5 A                                      |
| Nominal voltage $U_N$                                                                     | 500 V                                       |
| Open side panel                                                                           | No                                          |
| Ambient temperature (operation)                                                           | -60 °C ... 130 °C                           |
| Shock protection test specification                                                       | DIN EN 50274 (VDE 0660-514):2002-11         |
| Back of the hand protection                                                               | guaranteed                                  |
| Finger protection                                                                         | guaranteed                                  |
| Result of surge voltage test                                                              | Test passed                                 |
| Result of power-frequency withstand voltage test                                          | Test passed                                 |
| Power frequency withstand voltage setpoint                                                | 1.89 kV                                     |
| Result of the test for mechanical stability of terminal points (5 x conductor connection) | Test passed                                 |
| Result of bending test                                                                    | Test passed                                 |
| Bending test rotation speed                                                               | 10 rpm                                      |
| Bending test turns                                                                        | 135                                         |
| Bending test conductor cross section/weight                                               | 0.14 mm <sup>2</sup> / 0.2 kg               |
|                                                                                           | 1.5 mm <sup>2</sup> / 0.4 kg                |
| Tensile test result                                                                       | Test passed                                 |
| Result of tight fit on support                                                            | Test passed                                 |
| Tight fit on carrier                                                                      | NS 15                                       |
| Setpoint                                                                                  | 5 N                                         |
| Result of voltage-drop test                                                               | Test passed                                 |
| Result of temperature-rise test                                                           | Test passed                                 |
| Requirement temperature-rise test                                                         | Increase in temperature $\leq 45$ K         |
| Short circuit stability result                                                            | Test passed                                 |
| Conductor cross section short circuit testing                                             | 1.5 mm <sup>2</sup>                         |
| Short-time current                                                                        | 0.18 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                                                                            | $f_1 = 5$ Hz to $f_2 = 250$ Hz              |

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|                                                         |                                           |
|---------------------------------------------------------|-------------------------------------------|
| 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.)         |
| 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        | 16.8 mm |
| Length       | 21 mm   |
| Height NS 15 | 27.2 mm |

### Connection data

|                                                                            |                                                |
|----------------------------------------------------------------------------|------------------------------------------------|
| Connection method                                                          | Push-in connection                             |
| Stripping length                                                           | 8 mm ... 10 mm                                 |
| Connection in acc. with standard                                           | IEC 60947-7-1                                  |
| Conductor cross section solid min.                                         | 0.14 mm <sup>2</sup>                           |
| Conductor cross section solid max.                                         | 1.5 mm <sup>2</sup>                            |
| Conductor cross section AWG min.                                           | 26                                             |
| Conductor cross section AWG max.                                           | 16                                             |
| Conductor cross section flexible min.                                      | 0.14 mm <sup>2</sup>                           |
| Conductor cross section flexible max.                                      | 1.5 mm <sup>2</sup>                            |
| Min. AWG conductor cross section, flexible                                 | 26                                             |
| Max. AWG conductor cross section, flexible                                 | 16                                             |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>                            |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.25 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 1.5 mm <sup>2</sup>                            |
| Connection cross sections directly pluggable                               | 0.34 mm <sup>2</sup> 1.5 mm <sup>2</sup> 24 16 |

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### Technical data

#### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min.                                         | 0.34 mm <sup>2</sup> |
| Conductor cross section solid max.                                         | 1.5 mm <sup>2</sup>  |
| 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. | 1.5 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.    | 1.5 mm <sup>2</sup>  |
| Internal cylindrical gage                                                  | A1 / B1              |

#### Standards and Regulations

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

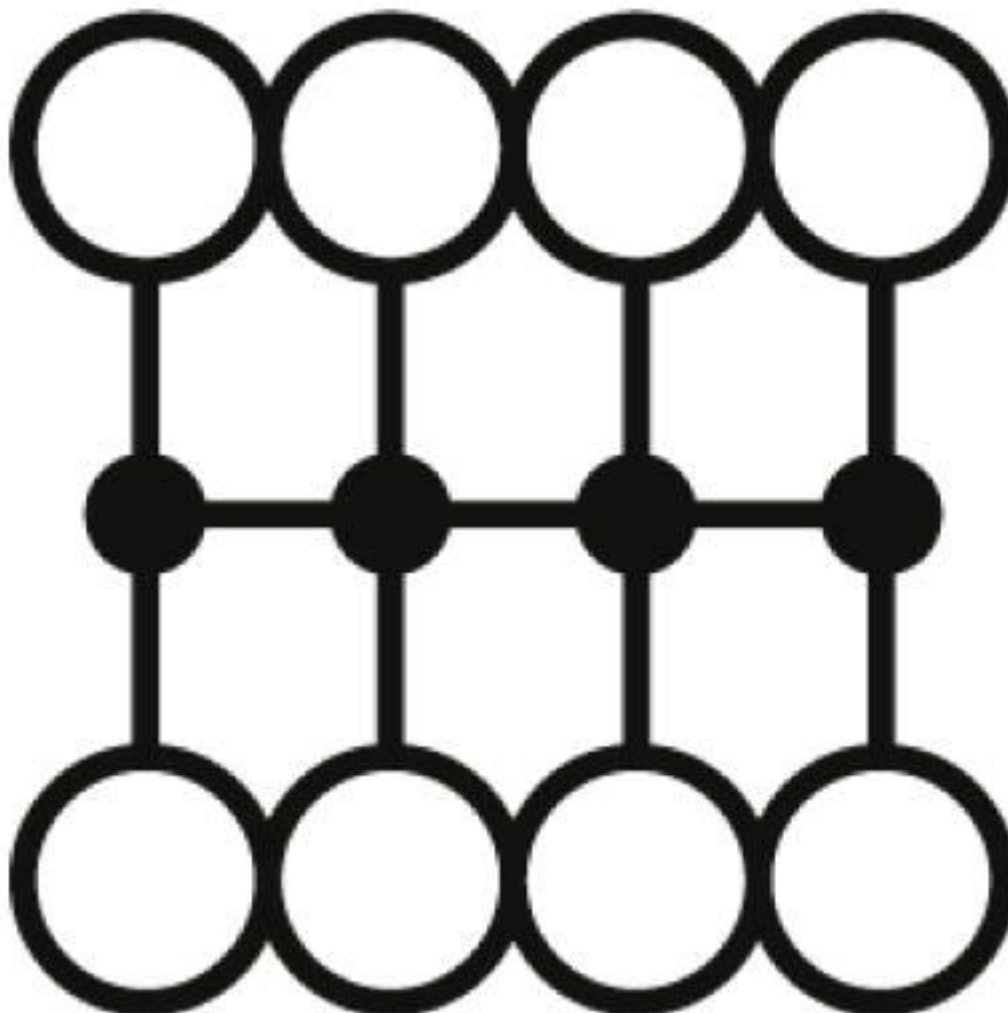
#### Environmental Product Compliance

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

### Drawings

## Distribution block - PTFIX 8X1,5-NS15A BU - 3002920

Circuit diagram



### Classifications

eCl@ss

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

ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| 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 |

### Accessories

#### Accessories

##### DIN rail

DIN rail, unperforated - NS 15 UNPERF 2000MM - 1401695



DIN rail, unperforated, Standard profile, width: 15 mm, height: 5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 15 PERF 2000MM - 1401682



DIN rail perforated, Standard profile, width: 15 mm, height: 5.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 15 AL PERF 2000MM - 1401763



DIN rail perforated, Standard profile, width: 15 mm, height: 5.5 mm, acc. to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

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### Accessories

DIN rail perforated - NS 15 WH PERF 2000MM - 1204096



DIN rail perforated, Standard profile, width: 15 mm, height: 5.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

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### End block

End clamp - CLIPFIX 15 - 3022263



Snap-on end bracket, to be snapped onto NS 15 DIN rail

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### End cover

End cover - D-PTFIX 1,5 - 3003254



End cover, for use in DIN rail mounting, length: 19.9 mm, width: 2.2 mm, height: 17.7 mm, color: gray

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### Insulating sleeve

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



Insulating sleeve, color: white

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



Insulating sleeve, color: gray

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### Jumper

## Distribution block - PTFIX 8X1,5-NS15A BU - 3002920

### Accessories

Plug-in bridge - FBS 2-4 - 3030116



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

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



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

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



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

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### Labeled terminal marker

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



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

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### Screwdriver tools

Screwdriver - SZF 0-0,4X2,5 - 1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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### Terminal marking

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### Accessories

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



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

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



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

### Test plug terminal block

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



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

Test plugs - MPS-MT 1-S - 1944372



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

# Mouser Electronics

Authorized Distributor

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