

## Distribution block - PTFIX 6X1,5-NS15A BK - 3002967

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Distribution block, internally jumpered, nom. voltage: 500 V, nominal current: 17.5 A, connection method: Push-in connection, number of connections: 6, cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 16, width: 12.5 mm, color: black, mounting type: NS 15

### Why buy this product

- ✓ 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

RoHS

### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 20 STK                                                                                                  |
| Minimum order quantity | 20 STK                                                                                                  |
| GTIN                   | <br>4 055626 433752 |
| GTIN                   | 4055626433752                                                                                           |

### 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                  | 6                                                                                                                                         |
| Potentials                             | 1                                                                                                                                         |
| Nominal cross section                  | 1.5 mm <sup>2</sup>                                                                                                                       |
| Color                                  | black                                                                                                                                     |
| 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                              |
| Ambient temperature (operation)                                                           | -60 °C ... 130 °C                   |
| Maximum load current                                                                      | 17.5 A                              |
| Nominal current $I_N$                                                                     | 17.5 A                              |
| 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 surge voltage test                                                              | Test passed                         |
| Surge voltage test setpoint                                                               | 7.3 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       |
|                                                                                           | 1.5 mm <sup>2</sup> / 0.4 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                                                      | 1.5 mm <sup>2</sup>                 |
| Tractive force setpoint                                                                   | 40 N                                |
| Result of tight fit on support                                                            | Test passed                         |
| Tight fit on carrier                                                                      | NS 15                               |
| Setpoint                                                                                  | 5 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                                             | 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                                |

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## Technical data

### General

|                                                         |                                                |
|---------------------------------------------------------|------------------------------------------------|
| 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                                          | $f_1 = 5 \text{ Hz}$ 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.)              |
| 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        | 12.5 mm |
| Length       | 21 mm   |
| Height NS 15 | 27.2 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. | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.   | 26                   |

## Distribution block - PTFIX 6X1,5-NS15A BK - 3002967

### Technical data

#### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| 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>  |
| Stripping length                                                           | 8 mm ... 10 mm       |
| Internal cylindrical gage                                                  | A1 / B1              |

#### 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 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



### Approvals

#### Approvals

Approvals

CSA / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

#### Approval details

## Distribution block - PTFIX 6X1,5-NS15A BK - 3002967

### Approvals

|                                |                                                                                   |                                                                                                                                         |       |
|--------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                            |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                                | B                                                                                 | C                                                                                                                                       | D     |
| mm <sup>2</sup> /AWG/kcmil     | 26-14                                                                             | 26-14                                                                                                                                   | 26-14 |
| Nominal current I <sub>N</sub> | 15 A                                                                              | 15 A                                                                                                                                    | 15 A  |
| Nominal voltage U <sub>N</sub> | 300 V                                                                             | 300 V                                                                                                                                   | 150 V |

|                                |                                                                                   |                                                                                                                                                       |              |
|--------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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            |
| mm <sup>2</sup> /AWG/kcmil     | 26-14                                                                             | 26-14                                                                                                                                                 | 26-14        |
| Nominal current I <sub>N</sub> | 15 A                                                                              | 15 A                                                                                                                                                  | 15 A         |
| Nominal voltage U <sub>N</sub> | 300 V                                                                             | 300 V                                                                                                                                                 | 150 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            |
| mm <sup>2</sup> /AWG/kcmil     | 26-14                                                                               | 26-14                                                                                                                                                 | 26-14        |
| Nominal current I <sub>N</sub> | 15 A                                                                                | 15 A                                                                                                                                                  | 15 A         |
| Nominal voltage U <sub>N</sub> | 300 V                                                                               | 300 V                                                                                                                                                 | 150 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> |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>