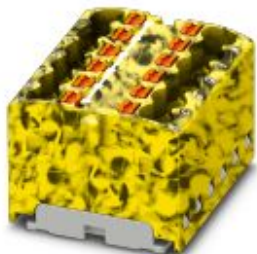


## Distribution block - PTFIX 12X1,5-FE - 3002796

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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: 450 V, nominal current: 17.5 A, connection method: Push-in connection, number of connections: 12, cross section: 0.14 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, AWG: 26 - 14, width: 24.9 mm, height: 17.7 mm, color: black/yellow, mounting type: for snapping onto a DIN rail adapter

### Your advantages

- ✓ Space-saving, thanks to the compact design
- ✓ Flexible use, thanks to direct mounting with flange covers from accessories
- ✓ 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



COMPLETE

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 20 pc                                                                                                   |
| GTIN         | <br>4 055626 432748 |
| GTIN         | 4055626432748                                                                                           |

### 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                  | 12                                                                                                                                        |
| Potentials                             | 1                                                                                                                                         |
| Nominal cross section                  | 1.5 mm <sup>2</sup>                                                                                                                       |
| Color                                  | black/yellow                                                                                                                              |
| Insulating material                    | PA                                                                                                                                        |
| Flammability rating according to UL 94 | V0                                                                                                                                        |
| Rated surge voltage                    | 6 kV                                                                                                                                      |
| Degree of pollution                    | 3                                                                                                                                         |
| Overvoltage category                   | III                                                                                                                                       |

# Distribution block - PTFIX 12X1,5-FE - 3002796

## Technical data

### General

|                                                                         |                                     |
|-------------------------------------------------------------------------|-------------------------------------|
| Insulating material group                                               | I                                   |
| Maximum power dissipation for nominal condition                         | 0.56 W                              |
| Designation                                                             | Level 1                             |
| Maximum load current                                                    | 22 A                                |
| Maximum total current                                                   | 26 A                                |
| Nominal current $I_N$                                                   | 17.5 A                              |
| Nominal voltage $U_N$                                                   | 450 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                                |
| 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

|        |         |
|--------|---------|
| Width  | 24.9 mm |
| Length | 21.6 mm |
| Height | 17.7 mm |

### Connection data

|                                    |                      |
|------------------------------------|----------------------|
| Connection method                  | Push-in connection   |
| Stripping length                   | 8 mm ... 10 mm       |
| 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. | 2.5 mm <sup>2</sup>  |

## Distribution block - PTFIX 12X1,5-FE - 3002796

### Technical data

#### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Conductor cross section AWG min.                                           | 26                   |
| Conductor cross section AWG max.                                           | 14                   |
| 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                                 | 24                   |
| 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. | 1.5 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.    | 1.5 mm <sup>2</sup>  |
| Internal cylindrical gage                                                  | A1 / B1              |

#### Standards and Regulations

|                                                        |               |
|--------------------------------------------------------|---------------|
| Connection in acc. with standard                       | 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   |
| 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   |

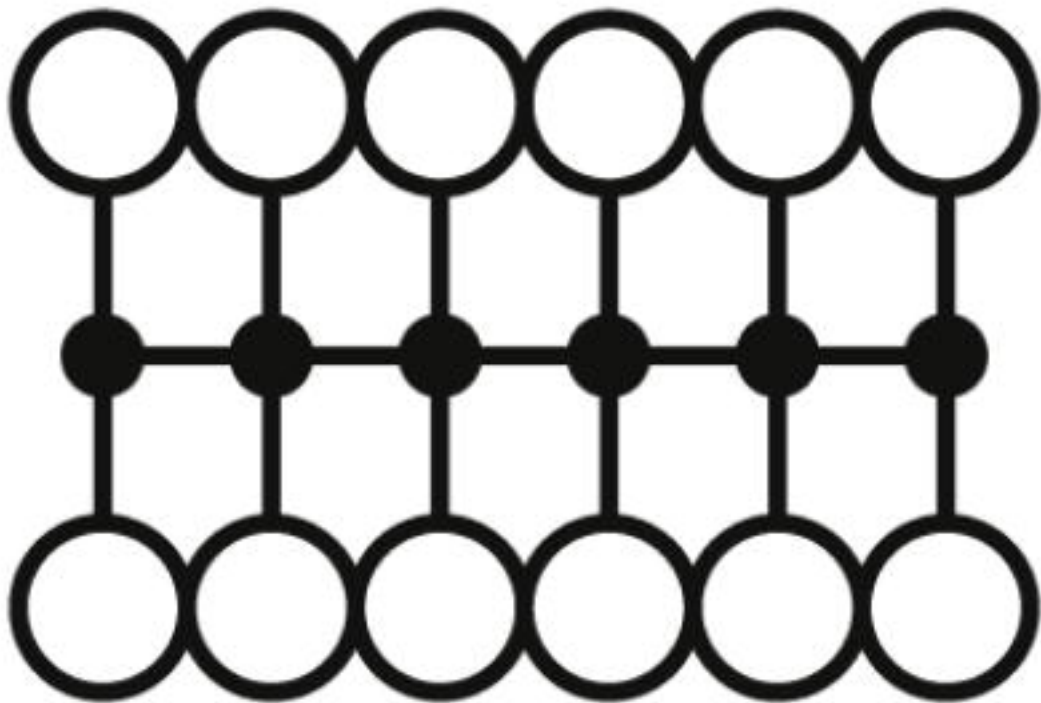
#### Environmental Product Compliance

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

### Drawings

Distribution block - PTFIX 12X1,5-FE - 3002796

Circuit diagram



Approvals

Approvals

Approvals

CSA / cUL Recognized / EAC / IECEx CB Scheme / VDE Zeichengenehmigung / DNV GL

Ex Approvals

Approval details

|                    |                                                                                     |                                                                                                                                         |       |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    | B                                                                                   | C                                                                                                                                       | D     |
| Nominal voltage UN | 300 V                                                                               | 150 V                                                                                                                                   | 300 V |
| Nominal current IN | 20 A                                                                                | 20 A                                                                                                                                    | 10 A  |
| mm²/AWG/kcmil      | 26-12                                                                               | 26-12                                                                                                                                   | 26-12 |

## Distribution block - PTFIX 12X1,5-FE - 3002796

### Approvals

|                    |                                                                                   |                                                                                                                                                       |              |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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            |
| Nominal voltage UN | 300 V                                                                             | 150 V                                                                                                                                                 | 300 V        |
| Nominal current IN | 15 A                                                                              | 15 A                                                                                                                                                  | 10 A         |
| mm²/AWG/kcmil      | 26-14                                                                             | 26-14                                                                                                                                                 | 26-14        |

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

|                    |                                                                                   |                                                           |           |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-61977 |
|                    |                                                                                   |                                                           |           |
| Nominal voltage UN |                                                                                   | 450 V                                                     |           |
| Nominal current IN |                                                                                   | 17.5 A                                                    |           |
| mm²/AWG/kcmil      |                                                                                   | 1.5                                                       |           |

|                        |                                                                                     |                                                                                                                                                                                                           |          |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Zeichengenehmigung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40047798 |
|                        |                                                                                     |                                                                                                                                                                                                           |          |
| Nominal voltage UN     |                                                                                     | 450 V                                                                                                                                                                                                     |          |
| Nominal current IN     |                                                                                     | 17.5 A                                                                                                                                                                                                    |          |
| mm²/AWG/kcmil          |                                                                                     | 0.2-1.5                                                                                                                                                                                                   |          |

|                    |                                                                                     |                                                                                   |            |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|
| DNV GL             |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE00002TT |
|                    |                                                                                     |                                                                                   |            |
| Nominal voltage UN |                                                                                     | 500 V                                                                             |            |
| Nominal current IN |                                                                                     | 24 A                                                                              |            |

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