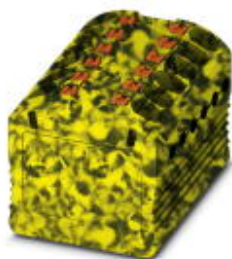


## Distribution block - PTFIX 12X1,5-FE - 3002796

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Distribution block, internally jumpered, 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> - 1.5 mm<sup>2</sup>, AWG: 26 - 16, width: 25.2 mm, height: 17.6 mm, color: black/yellow, mounting type: Direct mounting with flange

### Why buy this product

- ✓ 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

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 20 STK                                                                                                  |
| 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                              |
| Ambient temperature (operation)                                         | -60 °C ... 130 °C                   |
| Maximum load current                                                    | 17.5 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  | 25.2 mm |
| Length | 21 mm   |
| Height | 17.6 mm |

### Connection data

|                                    |                      |
|------------------------------------|----------------------|
| Connection method                  | Push-in connection   |
| Connection in acc. with standard   | IEC 60998-2-2        |
| Conductor cross section solid min. | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max. | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.   | 26                   |
| Conductor cross section AWG max.   | 16                   |

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

### Technical data

#### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| 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 60998-2-2                                   |
| Flammability rating according to UL 94                 | V0                                              |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |

#### Environmental Product Compliance

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

### Drawings

#### Circuit diagram



### Approvals

#### Approvals

##### Approvals

CSA / UL Recognized / cUL Recognized / cULus Recognized

##### Ex Approvals

#### Approval details

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

### 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> |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

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