

## Distribution block - PTFIX 4/6X1,5-G OG - 1047487

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Distribution block, nom. voltage: 450 V, nominal current: 17.5 A, connection method: Push-in connection, Push-in connection, number of connections: 7, cross section: 0.14 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, AWG: 26 - 14, width: 19 mm, height: 18.7 mm, color: orange, mounting type: adhesive



### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 20 pc         |
| GTIN         |               |
| GTIN         | 4055626665924 |

### Technical data

#### General

|  |   |
|--|---|
| Number of levels                       | 1   |
| Number of connections                  | 7   |
| Nominal cross section                  | 1.5 mm <sup>2</sup>                                       |
| Nominal cross section feed-in          | 6 mm <sup>2</sup>   |
| Color                                  | orange  |
| Insulating material                    | PA  |
| Flammability rating according to UL 94 | V0  |
| Rated surge voltage                    | 6 kV  |
| Degree of pollution                    | 3   |
| Overvoltage category                   | III   |
| Insulating material group              | I   |
| Maximum load current                   | 22 A (with a 2.5 mm <sup>2</sup> conductor cross section) |
| Maximum total current                  | 32 A  |
| Nominal current I <sub>N</sub>         | 17.5 A  |
| Nominal voltage U <sub>N</sub>         | 450 V   |
| Maximum load current                   | 41 A (with 6 mm <sup>2</sup> conductor connection)        |
| Maximum total current                  | 41 A  |

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## Technical data

### General

|   |  |
|---|--|
| Nominal current $I_N$   | 41 A   |
| Nominal voltage $U_N$   | 500 V  |
| Open side panel   | No   |
| Ambient temperature (operation)   | -35 °C ... 85 °C   |
| Ambient temperature (storage/transport)                                 | 4 °C ... 38 °C (For a short time, not exceeding 24 h, -60 to +70 °C) |
| Permissible humidity (storage/transport)                                | 30 % ... 70 %  |
| Ambient temperature (assembly)  | -5 °C ... 70 °C  |
| Ambient temperature (actuation)   | -5 °C ... 70 °C  |
| Result of thermal test  | Test passed  |
| Proof of thermal characteristics (needle flame) effective duration      | 30 s   |
| Oscillation, broadband noise test result                                | Test passed  |
| Test specification, oscillation, broadband noise                        | DIN EN 50155 (VDE 0115-200):2018-05                                  |
| 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 (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):2018-05                                  |
| 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)) | 125 °C   |
| Static insulating material application in cold                          | -60 °C   |
| 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)                        | 27,5 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  | 19 mm   |
| Length | 21.6 mm |

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## Technical data

### Dimensions

|        |         |
|--------|---------|
| Height | 18.7 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>                      |
| 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                                 | 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. | 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>                      |
| Connection cross sections directly pluggable                               | 0.34 mm <sup>2</sup> 2.5 mm <sup>2</sup> |
| Conductor cross section solid min.   | 0.34 mm <sup>2</sup>                     |
| Conductor cross section solid max.   | 2.5 mm <sup>2</sup>                      |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.34 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.    | 0.34 mm <sup>2</sup>                     |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 1.5 mm <sup>2</sup>                      |
| Internal cylindrical gage  | A3                                       |
| Connection   | Feed-in stage                            |
| Connection method  | Push-in connection                       |
| Stripping length   | 10 mm ... 12 mm                          |
| Connection in acc. with standard   | IEC 60998-2-2                            |
| Conductor cross section solid min.   | 0.2 mm <sup>2</sup>                      |
| Conductor cross section solid max.   | 6 mm <sup>2</sup>                        |
| Conductor cross section AWG min.   | 24                                       |
| Conductor cross section AWG max.   | 10                                       |
| Conductor cross section flexible min.                                      | 0.2 mm <sup>2</sup>                      |
| Conductor cross section flexible max.                                      | 4 mm <sup>2</sup>                        |
| Min. AWG conductor cross section, flexible                                 | 24                                       |
| Max. AWG conductor cross section, flexible                                 | 10                                       |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.2 mm <sup>2</sup>                      |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 4 mm <sup>2</sup>                        |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.2 mm <sup>2</sup>                      |

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### Technical data

#### Connection data

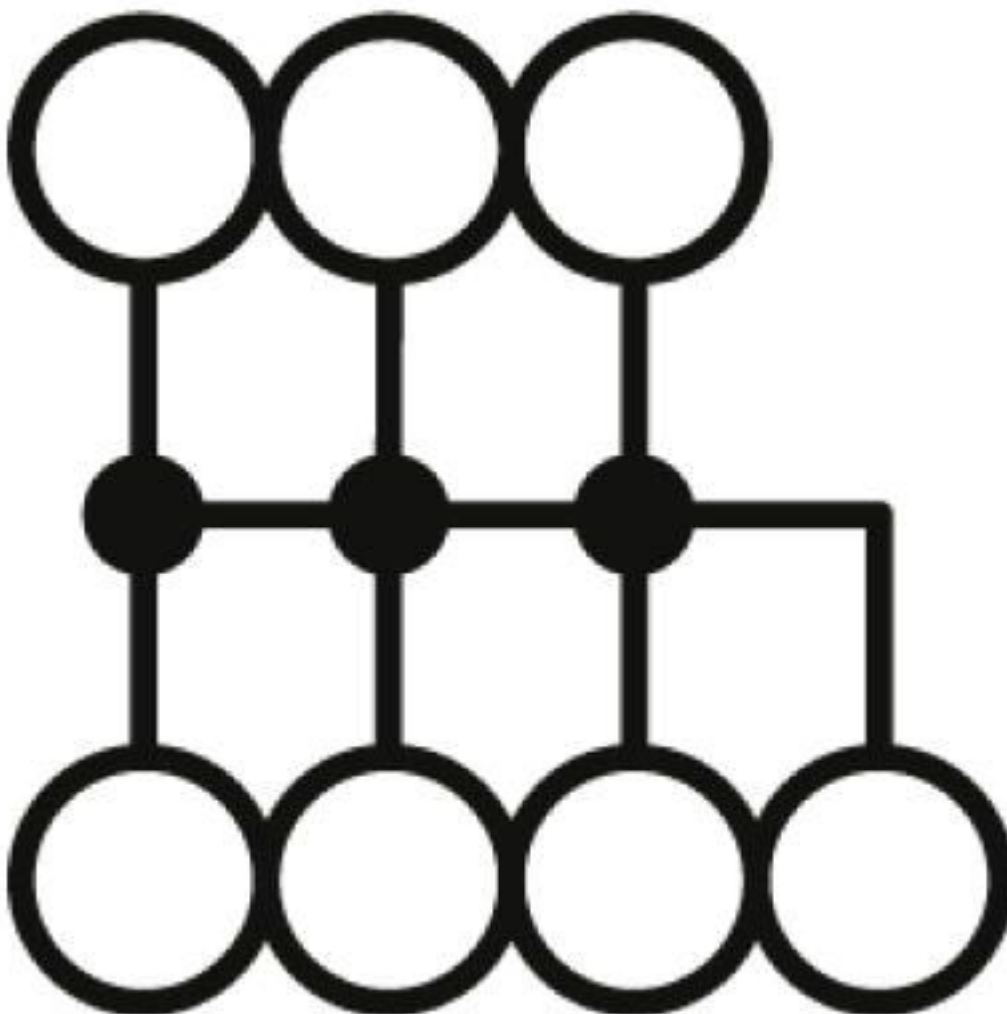
|  |                     |
|--|---------------------|
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 4 mm <sup>2</sup>   |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.5 mm <sup>2</sup> |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 1.5 mm <sup>2</sup> |

#### Standards and Regulations

|  |               |
|--|---------------|
| Connection in acc. with standard       | IEC 60998-2-2 |
|  | IEC 60998-2-2 |
| Flammability rating according to UL 94 | V0            |

### Drawings

Circuit diagram



# Distribution block - PTFIX 4/6X1,5-G OG - 1047487

## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141120 |
| eCl@ss 8.0    | 27141120 |
| eCl@ss 9.0    | 27141120 |

### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC000897 |
| ETIM 6.0 | EC000897 |
| ETIM 7.0 | EC000897 |

## Approvals

### Approvals


#### Approvals


EAC / UL Recognized / cUL Recognized / CSA / IECCEB Scheme / VDE Zeichengenehmigung / DNV GL / EAC / LR / BV / cULus Recognized

#### Ex Approvals

### Approval details

|     |   |                      |
|-----|---|----------------------|
| EAC |  | RU C-DE.AI30.B.01102 |
|-----|---|----------------------|

|                            |   |   |              |
|----------------------------|---|---|--------------|
| 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   |              |
| Nominal voltage UN         | 300 V   | 150 V   |              |
| Nominal current IN         | 30 A  | 30 A  |              |
| mm <sup>2</sup> /AWG/kcmil | 24-10   | 24-10   |              |

|                            |   |   |              |
|----------------------------|---|---|--------------|
| 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   |              |
| Nominal voltage UN         | 300 V   | 150 V   |              |
| Nominal current IN         | 30 A  | 30 A  |              |
| mm <sup>2</sup> /AWG/kcmil | 24-10   | 24-10   |              |

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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 |
|                            |  | B   | C     |
| Nominal voltage UN         |  | 300 V   | 150 V |
| Nominal current IN         |  | 30 A  | 30 A  |
| mm <sup>2</sup> /AWG/kcmil |  | 24-10   | 24-10 |

|                            |  |   |           |
|----------------------------|--|---|-----------|
| IECEE CB Scheme            |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-61977 |
| Nominal voltage UN         |  | 450 V   |           |
| Nominal current IN         |  | 32 A  |           |
| mm <sup>2</sup> /AWG/kcmil |  | 4   |           |

|                            |  |   |          |
|----------------------------|--|---|----------|
| 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         |  | 32 A  |          |
| mm <sup>2</sup> /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  |            |

|     |  |  |                          |
|-----|--|--|--------------------------|
| EAC |  |  | RU C-<br>DE.BL08.B.00644 |
|-----|--|--|--------------------------|

|    |  |   |             |
|----|--|---|-------------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | LR2002627TA |
|----|--|---|-------------|

## Distribution block - PTFIX 4/6X1,5-G OG - 1047487

### Approvals

|    |  |   |             |
|----|--|---|-------------|
| BV |  | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a> | 59146/A0 BV |
|----|--|---|-------------|

|                  |  |
|------------------|--|
| cULus Recognized |  |
|------------------|--|

### Accessories

#### Accessories

##### 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

##### Jumper

Plug-in bridge - FBS 2-4 - 3030116



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

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



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

## Distribution block - PTFIX 4/6X1,5-G OG - 1047487

### Accessories

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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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Marker card - SK 2,8 REEL P4,15 WH CUS - 8199987



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 2.8#mm

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Marker card - SK 3,8 REEL P4,15 WH CUS - 8199988



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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### 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: 30000 x 3.8 mm, Number of individual labels: 1

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## Distribution block - PTFIX 4/6X1,5-G OG - 1047487

### Accessories

#### 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

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#### Marking foil for zack marker strip - TML (104X2,8)R - 0801832



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 2.8 mm, Number of individual labels: 2500

---

#### Marking foil for zack marker strip - TML (EX2,8)R - 0801836



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 2.8 mm, Number of individual labels: 1

---

#### Marker for terminal blocks - US-TML (104X3,8) - 0830768



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 3.8 mm, Number of individual labels: 22

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#### Marker for terminal blocks - US-TML (104X2,8) - 0830767



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 2.8 mm, Number of individual labels: 26

## Distribution block - PTFIX 4/6X1,5-G OG - 1047487

### Accessories

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 2.8 mm, Number of individual labels: 3600

Label - MM-TML (EX3,8)R C1 WH/BK - 1092026



Label, Roll, white, unlabeled, can be labeled with: THERMOFOX, THERMOMARK GO, THERMOMARK GO.K, mounting type: adhesive, for terminal block width: 8000 mm, lettering field size: continuous x 3.8#mm

Test plug terminal block

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



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

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