

## Distribution block - PTFIX 6/6X2,5-G YE - 3273466

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Distribution block, Basic terminal block with supply, nom. voltage: 500 V, nominal current: 24 A, connection method: Push-in connection, Push-in connection, number of connections: 7, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, width: 25.2 mm, height: 21.2 mm, color: yellow, mounting type: adhesive

The figure shows the version PTFIX 6/18X2,5-G in gray

### Why buy this product

- ✓ Time savings of up to 80%, thanks to ready-to-mount blocks without manual bridging
- ✓ Time-saving conductor connection, thanks to tool-free Push-in direct connection technology
- ✓ Clear wiring, thanks to eleven different color variants
- ✓ Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting
- ✓ Space savings of up to 50% on the DIN rail, thanks to transverse mounting

### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 10 STK                                                                                                  |
| Minimum order quantity | 10 STK                                                                                                  |
| GTIN                   | <br>4 055626 393087 |
| GTIN                   | 4055626393087                                                                                           |

### 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                  | 7                                                                                                                                         |
| Potentials                             | 1                                                                                                                                         |
| Nominal cross section                  | 2.5 mm <sup>2</sup>                                                                                                                       |
| Nominal cross section feed-in          | 6 mm <sup>2</sup>                                                                                                                         |
| Color                                  | yellow                                                                                                                                    |
| Insulating material                    | PA                                                                                                                                        |
| Flammability rating according to UL 94 | V0                                                                                                                                        |
| Rated surge voltage                    | 6 kV                                                                                                                                      |
| Degree of pollution                    | 3                                                                                                                                         |
| Overvoltage category                   | III                                                                                                                                       |

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## Technical data

### General

|                                                                         |                                                                                                       |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Insulating material group                                               | I                                                                                                     |
| Maximum power dissipation for nominal condition                         | 1.31 W (the value is based on one connection block and is multiplied according to the pin assignment) |
| Maximum load current                                                    | 24 A                                                                                                  |
| Nominal current $I_N$                                                   | 24 A                                                                                                  |
| Nominal voltage $U_N$                                                   | 500 V                                                                                                 |
| Maximum load current                                                    | 57 A (with 10 mm <sup>2</sup> conductor cross section)                                                |
| Nominal current $I_N$                                                   | 41 A (with 6 mm <sup>2</sup> conductor cross section)                                                 |
| 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 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):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 (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.)                                                                     |
| 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                                                                                                |

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|                                                        |             |
|--------------------------------------------------------|-------------|
| 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 | 28.2 mm |
| Height | 21.2 mm |

### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Feed-in connection                                                         | Feed-in stage        |
| 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.                                         | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.                                           | 26                   |
| Conductor cross section AWG max.                                           | 12                   |
| Conductor cross section flexible min.                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.                                      | 2.5 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. | 2.5 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.    | 2.5 mm <sup>2</sup>  |
| Stripping length                                                           | 8 mm ... 10 mm       |
| Internal cylindrical gage                                                  | A3                   |
| Connection method                                                          | Push-in connection   |
| Connection in acc. with standard                                           | IEC 60998-2-2        |
| Conductor cross section solid min.                                         | 0.5 mm <sup>2</sup>  |
| Conductor cross section solid max.                                         | 10 mm <sup>2</sup>   |
| Conductor cross section AWG min.                                           | 20                   |
| Conductor cross section AWG max.                                           | 8                    |
| Conductor cross section flexible min.                                      | 0.5 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                      | 6 mm <sup>2</sup>    |
| Min. AWG conductor cross section, flexible                                 | 20                   |
| Max. AWG conductor cross section, flexible                                 | 10                   |
| 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. | 6 mm <sup>2</sup>    |

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#### Connection data

|                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|
| 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.                 | 6 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 1.5 mm <sup>2</sup> |
| Stripping length                                                                        | 10 mm ... 12 mm     |

#### Standards and Regulations

|                                                        |                                                 |
|--------------------------------------------------------|-------------------------------------------------|
| Connection in acc. with standard                       | IEC 60998-2-2                                   |
|                                                        | 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

UL Recognized / cUL Recognized / CSA / cULus Recognized

Ex Approvals

#### Approval details

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### Approvals

|                                |                                                                                   |                                                                                                                                                       |              |
|--------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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            |
| mm²/AWG/kcmil                  | 20-8                                                                              | 20-8                                                                                                                                                  | 20-8         |
| Nominal current I <sub>N</sub> | 50 A                                                                              | 50 A                                                                                                                                                  | 5 A          |
| Nominal voltage U <sub>N</sub> | 300 V                                                                             | 300 V                                                                                                                                                 | 600 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            |
| mm²/AWG/kcmil                  | 20-8                                                                              | 20-8                                                                                                                                                  | 20-8         |
| Nominal current I <sub>N</sub> | 50 A                                                                              | 50 A                                                                                                                                                  | 5 A          |
| Nominal voltage U <sub>N</sub> | 300 V                                                                             | 300 V                                                                                                                                                 | 600 V        |

|                                |                                                                                     |                                                                                                                                         |       |
|--------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                            |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                                | B                                                                                   | C                                                                                                                                       | D     |
| mm²/AWG/kcmil                  | 20-8                                                                                | 20-8                                                                                                                                    | 20-8  |
| Nominal current I <sub>N</sub> | 50 A                                                                                | 50 A                                                                                                                                    | 5 A   |
| Nominal voltage U <sub>N</sub> | 300 V                                                                               | 300 V                                                                                                                                   | 600 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> |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|