

## Distribution block - PTFIX 14X1,5-RZ WH - 3003093

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Distribution block, jumpered internally, with securing pin for fixing, The blocks can be bridged with one another via the conductor shaft. For corresponding plug-in bridges, see accessories, nom. voltage: 500 V, nominal current: 17.5 A, connection method: Push-in connection, number of connections: 14, cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 16, width: 31.5 mm, height: 22.1 mm, color: white, mounting type: Direct mounting with securing pin

### Your advantages

- ✓ 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



### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 20 pc                                                                                                   |
| GTIN         | <br>4 055626 434919 |
| GTIN         | 4055626434919                                                                                           |

### 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                  | 14                                                                                                                                        |
| Potentials                             | 1                                                                                                                                         |
| Nominal cross section                  | 1.5 mm <sup>2</sup>                                                                                                                       |
| Color                                  | white                                                                                                                                     |
| 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                                           | 0.56 W                                      |
| Maximum load current                                                                      | 17.5 A                                      |
| Nominal current $I_N$                                                                     | 17.5 A                                      |
| Nominal voltage $U_N$                                                                     | 500 V                                       |
| Open side panel                                                                           | No                                          |
| Ambient temperature (operation)                                                           | -60 °C ... 130 °C                           |
| 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                                 |
| 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                                 |
| Result of tight fit on support                                                            | Test passed                                 |
| Tight fit on carrier                                                                      | conductive mounting plate                   |
| Setpoint                                                                                  | 1 N                                         |
| Result of voltage-drop test                                                               | Test passed                                 |
| Result of temperature-rise test                                                           | Test passed                                 |
| Requirement temperature-rise test                                                         | Increase in temperature $\leq 45$ K         |
| 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                                        |
| 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                                                                            | $f_1 = 5$ Hz to $f_2 = 250$ Hz              |
| ASD level                                                                                 | 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz   |
| Acceleration                                                                              | 3.12 g                                      |
| Test duration per axis                                                                    | 5 h                                         |

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## Technical data

### General

|                                                                         |                                     |
|-------------------------------------------------------------------------|-------------------------------------|
| 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                              |
| 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)                        | 28 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              | 31.5 mm           |
| Length             | 20 mm             |
| Height             | 22.1 mm           |
| Hole diameter      | 3.5 mm            |
| Drill hole spacing | 25.1 mm           |
| Plate thickness    | 0.6 mm ... 1.5 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.                                         | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.                                           | 26                   |
| 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> |

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### Technical data

#### Connection data

|                                                                            |                                                |
|----------------------------------------------------------------------------|------------------------------------------------|
| 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>                            |
| Connection cross sections directly pluggable                               | 0.34 mm <sup>2</sup> 1.5 mm <sup>2</sup> 24 16 |
| Conductor cross section solid min.                                         | 0.34 mm <sup>2</sup>                           |
| Conductor cross section solid max.                                         | 1.5 mm <sup>2</sup>                            |
| 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. | 1.5 mm <sup>2</sup>                            |
| 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.    | 1.5 mm <sup>2</sup>                            |
| Internal cylindrical gage                                                  | A1 / B1                                        |

#### Standards and Regulations

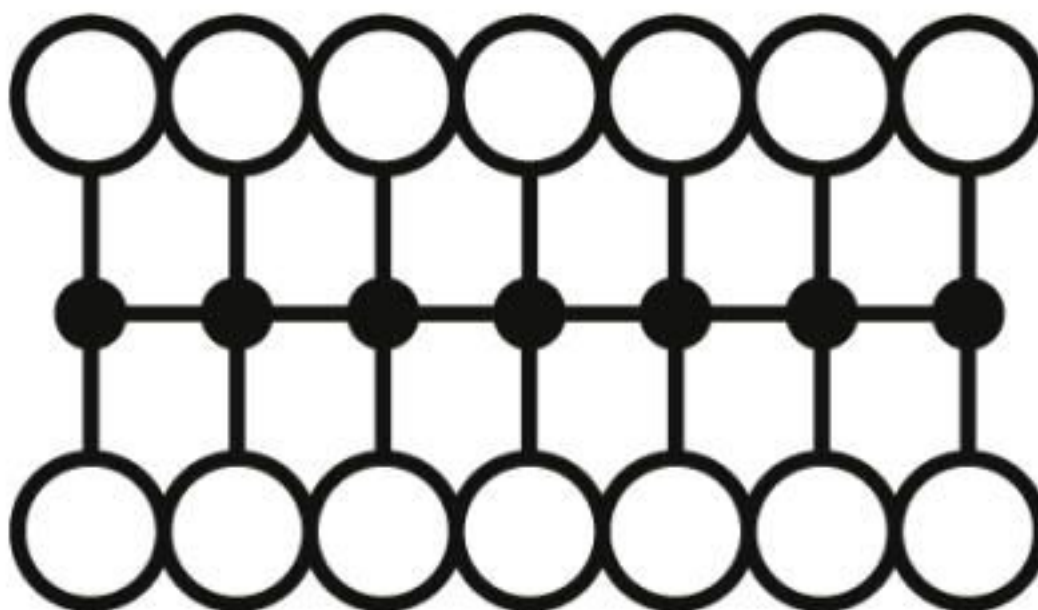
|                                        |               |
|----------------------------------------|---------------|
| Connection in acc. with standard       | IEC 60998-2-2 |
| Flammability rating according to UL 94 | V0            |

#### Environmental Product Compliance

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

### Drawings

Circuit diagram



## Distribution block - PTFIX 14X1,5-RZ WH - 3003093

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141120 |
| eCl@ss 4.1 | 27141120 |
| eCl@ss 5.0 | 27141120 |
| eCl@ss 5.1 | 27141120 |
| eCl@ss 6.0 | 27141100 |
| eCl@ss 7.0 | 27141120 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 6.0 | EC000897 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |

### 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

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### Accessories

Plug-in bridge - FBS 2-4 - 3030116



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

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



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

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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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### Screwdriver tools

Screwdriver - SZF 0-0,4X2,5 - 1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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### Terminal marking

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### Accessories

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

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

### Test plug terminal block

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



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

Test plugs - MPS-MT 1-S - 1944372



Test plug, consisting of 1.0 mm Ø test pin and 2.0 mm Ø socket

# Mouser Electronics

Authorized Distributor

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