

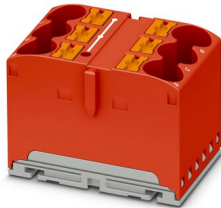
# Distribution block - PTFIX 6X10/S-G RD



1082494

<https://www.phoenixcontact.com/us/products/1082494>

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Distribution block, the blocks can be bridged with one another via the conductor shaft, for corresponding plug-in bridges, see accessories, bridged internally, nom. voltage: 450 V, nominal current: 57 A, connection method: Push-in connection, Rated cross section: 10 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, mounting type: adhesive, color: red

## Commercial Data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1082494                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 10 pc                          |
| Note                                 | Made to Order (non-returnable) |
| Sales Key                            | B02                            |
| Product Key                          | BEA113                         |
| GTIN                                 | 4055626814841                  |
| Weight per Piece (including packing) | 27.28 g                        |
| Weight per Piece (excluding packing) | 25.104 g                       |
| Customs tariff number                | 85369010                       |
| Country of origin                    | PL                             |

# Distribution block - PTFIX 6X10/S-G RD



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## Technical Data

### Notes

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | the blocks can be bridged with one another via the conductor shaft, for corresponding plug-in bridges, see accessories |
|--------------------|------------------------------------------------------------------------------------------------------------------------|

### General

|      |                                                                                                                                                         |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note | For versions with 6 or 7 connections, it is enough to place one DIN rail adapter centrally per block and place flange elements after every other block. |
|      | Depending on the application case and mechanical load, other arrangements of the mounting accessory can also be chosen.                                 |
|      | When using the DIN rail adapter PTFIX-NS35, an aligned block must not protrude by more than a half.                                                     |

### Product properties

|                       |                            |
|-----------------------|----------------------------|
| Product type          | Distributor terminal block |
| Number of connections | 6                          |
| Number of rows        | 1                          |
| Potentials            | 1                          |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 6 kV   |
| Maximum power dissipation for nominal condition | 1.82 W |

### Connection data

|                                         |                                                                                                |
|-----------------------------------------|------------------------------------------------------------------------------------------------|
| Number of connections per level         | 6                                                                                              |
| Nominal cross section                   | 10 mm <sup>2</sup>                                                                             |
| Stripping length                        | 12 mm ... 14 mm                                                                                |
| Internal cylindrical gage               | A5                                                                                             |
| Conductor cross section solid           | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>                                                     |
| Cross section AWG                       | 20 ... 6 (converted acc. to IEC)                                                               |
| Conductor cross section flexible        | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>                                                     |
| Conductor cross section, flexible [AWG] | 20 ... 8 (converted acc. to IEC)                                                               |
| Nominal current                         | 57 A                                                                                           |
| Maximum load current                    | 76 A (with a 16 mm <sup>2</sup> conductor cross section, rigid)                                |
| Maximum total current                   | 90 A (The load current of all connected conductors must not exceed the maximum total current.) |
| Nominal voltage                         | 450 V                                                                                          |
| Nominal cross section                   | 10 mm <sup>2</sup>                                                                             |

### Connection cross sections directly pluggable

|                               |                                          |
|-------------------------------|------------------------------------------|
| Conductor cross section solid | 1 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
|-------------------------------|------------------------------------------|

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|                                                                         |                                          |
|-------------------------------------------------------------------------|------------------------------------------|
| Conductor cross section flexible                                        | 1 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Flexible conductor cross section flexible (ferrule, w/o plastic sleeve) | 1 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Flexible conductor cross section (ferrule with plastic sleeve)          | 1 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |

## Dimensions

|        |         |
|--------|---------|
| Width  | 37 mm   |
| Height | 25.1 mm |
| Length | 24.5 mm |

## Material specifications

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Color                                                                   | red    |
| Flammability rating according to UL 94                                  | V0     |
| Insulating material group                                               | I      |
| Insulating material                                                     | PA     |
| Static insulating material application in cold                          | -40 °C |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C |
| Relative insulation material temperature index (Elec., UL 746 B)        | 125 °C |

## Mechanical properties

### Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

## Mechanical tests

### Attachment on the carrier

|                         |                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DIN rail/fixing support | NS 35/NS 15                                                                                                                                                                                                                                                        |
| Result                  | Test passed                                                                                                                                                                                                                                                        |
| Note                    | For versions with 6 or 7 connections, it is enough to place one DIN rail adapter centrally per block and place flange elements after every other block.<br><br>When using the DIN rail adapter PTFIX-NS35, an aligned block must not protrude by more than a half. |

## Environmental and real-life conditions

### Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| Result           | Test passed |

### Oscillation/broadband noise

|               |                                                  |
|---------------|--------------------------------------------------|
| Specification | DIN EN 50155 (VDE 0115-200):2018-05              |
| Spectrum      | Service life test category 2, bogie-mounted      |
| Frequency     | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz |
| ASD level     | 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz        |
| Acceleration  | 3.12g                                            |

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|                        |                   |
|------------------------|-------------------|
| Test duration per axis | 5 h               |
| Test directions        | X-, Y- and Z-axis |
| Result                 | Test passed       |

## Shocks

|                                |                                   |
|--------------------------------|-----------------------------------|
| Pulse shape                    | Half-sine                         |
| Acceleration                   | 30g                               |
| Shock duration                 | 18 ms                             |
| Number of shocks per direction | 3                                 |
| Test directions                | X-, Y- and Z-axis (pos. and neg.) |
| Result                         | Test passed                       |

## Ambient conditions

|                                          |                                                                           |
|------------------------------------------|---------------------------------------------------------------------------|
| Ambient temperature (operation)          | -35 °C ... 105 °C (max. short-term operating temperature RTI Elec.)       |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly)           | -5 °C ... 70 °C                                                           |
| Ambient temperature (actuation)          | -5 °C ... 70 °C                                                           |
| Permissible humidity (storage/transport) | 30 % ... 70 %                                                             |

## Standards and regulations

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

## Mounting

|               |          |
|---------------|----------|
| Mounting type | adhesive |
|---------------|----------|

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## Drawings

Circuit diagram



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## Approvals

|  <b>CSA</b><br>Approval ID: 158887 |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                     | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
| Use group B                                                                                                         |                       |                       |                   |                             |
|                                                                                                                     | 600 V                 | 60 A                  | 20 - 6            | -                           |
| Use group C                                                                                                         |                       |                       |                   |                             |
|                                                                                                                     | 600 V                 | 60 A                  | 20 - 6            | -                           |
| Use group D                                                                                                         |                       |                       |                   |                             |
|                                                                                                                     | 600 V                 | 5 A                   | 20 - 6            | -                           |

|  <b>IECEE CB Scheme</b><br>Approval ID: DE1-63780 |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                    | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|                                                                                                                                    | 450 V                 | 57 A                  | -                 | - 10                        |

|  <b>EAC</b><br>Approval ID: RU C-DE.AI30.B.01102 |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>VDE Zeichengenehmigung</b><br>Approval ID: 40047798 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                            | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|                                                                                                                                            | 450 V                 | 57 A                  | -                 | 0.5 - 10                    |

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                    | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
| Use group B                                                                                                                        |                       |                       |                   |                             |
|                                                                                                                                    | 600 V                 | 60 A                  | 20 - 6            | -                           |
| Use group C                                                                                                                        |                       |                       |                   |                             |
|                                                                                                                                    | 600 V                 | 60 A                  | 20 - 6            | -                           |
| Use group D                                                                                                                        |                       |                       |                   |                             |
|                                                                                                                                    | 600 V                 | 5 A                   | 20 - 6            | -                           |

| <b>DNV</b><br>Approval ID: TAE00002TT |                       |                       |                   |                             |
|---------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                       | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|                                       | 500 V                 | 24 A                  | -                 | -                           |

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## Classifications

### ECLASS

|               |          |
|---------------|----------|
| ECLASS-9.0    | 27141120 |
| ECLASS-10.0.1 | 27141120 |
| ECLASS-11.0   | 27141120 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC000897 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental Product Compliance

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

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## Accessories

### Marker for terminal blocks

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

<https://www.phoenixcontact.com/us/products/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

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

<https://www.phoenixcontact.com/us/products/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 6X10/S-G RD



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## Marker card

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

<https://www.phoenixcontact.com/us/products/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

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## Marker card

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

<https://www.phoenixcontact.com/us/products/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

# Distribution block - PTFIX 6X10/S-G RD



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## Marking foil for zack marker strip

Marking foil for zack marker strip - TML (EX3,8)R - 0801837

<https://www.phoenixcontact.com/us/products/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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## Marking foil for zack marker strip

Marking foil for zack marker strip - TML (104X3,8)R - 0801833

<https://www.phoenixcontact.com/us/products/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

## Distribution block - PTFIX 6X10/S-G RD



1082494

<https://www.phoenixcontact.com/us/products/1082494>

### Marking foil for zack marker strip

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

<https://www.phoenixcontact.com/us/products/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

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### Marking foil for zack marker strip

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

<https://www.phoenixcontact.com/us/products/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

# Distribution block - PTFIX 6X10/S-G RD



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## Label

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

<https://www.phoenixcontact.com/us/products/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 2.8 mm

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