

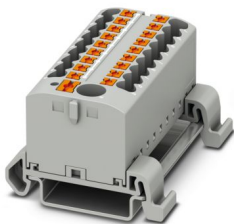
# PTFIX 6/18X2,5-NS35A GY-EX - Distribution block



1221450

<https://www.phoenixcontact.com/gb/products/1221450>

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Distribution block, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

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

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1221450       |
| Packing unit                         | 8 pc          |
| Minimum order quantity               | 8 pc          |
| Sales key                            | BEA124        |
| Product key                          | BEA124        |
| GTIN                                 | 4063151303389 |
| Weight per piece (including packing) | 43.087 g      |
| Weight per piece (excluding packing) | 22.22 g       |
| Country of origin                    | PL            |

## 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 | The maximum load current of a single clamping unit must not be exceeded.                                                                                 |
|      | For power distribution applications, IEC 60364-4-43:2008; modified + corrigendum Okt. 2008 (DIN VDE 0100-430:2010-10) section 433.2 ff must be observed! |

### Product properties

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

### Insulation characteristics

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

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 0.77 W |

### Connection data

|                  |                |
|------------------|----------------|
| Stripping length | 8 mm ... 10 mm |
|------------------|----------------|

### Ex data

#### Rated data (ATEX/IECEx)

|                             |                                    |
|-----------------------------|------------------------------------|
| Identification              | Ⓔ II 2 G Ex eb IIC Gb              |
| Operating temperature range | -60 °C ... 110 °C                  |
| Ex-certified accessories    | 1204517 SZF 1-0,6X3,5              |
|                             | 3022276 CLIPFIX 35-5               |
|                             | 3022218 CLIPFIX 35                 |
| List of bridges             | Plug-in bridge / FBS 2-5 / 3030161 |
| Bridge data                 | 23 A (10 mm²)                      |
| Ex temperature increase     | 40 K (40 A / 6 mm²)                |
| Rated insulation voltage    | 400 V                              |
| output                      | (Permanent)                        |

#### Ex level General

|                       |               |
|-----------------------|---------------|
| Rated voltage         | 440 V         |
| Maximum total current | 55 A (10 mm²) |
| output                | (Permanent)   |

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## Ex level Terminal point

|                      |                               |
|----------------------|-------------------------------|
| Rated current        | 22.5 A (2.5 mm <sup>2</sup> ) |
| Maximum load current | 27 A (4 mm <sup>2</sup> )     |
| Contact resistance   | 0.5 mΩ                        |

## Ex connection data Terminal point

|                              |                                              |
|------------------------------|----------------------------------------------|
| Stripping length             | 8 mm ... 10 mm                               |
| Nominal cross section        | 2.5 mm <sup>2</sup>                          |
| Rated cross section AWG      | 14                                           |
| Connection capacity rigid    | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Connection capacity AWG      | 26 ... 12                                    |
| Connection capacity flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Connection capacity AWG      | 26 ... 14                                    |
| output                       | (Permanent)                                  |

## Ex level Feed-in contact

|                      |                            |
|----------------------|----------------------------|
| Rated current        | 40 A (6 mm <sup>2</sup> )  |
| Maximum load current | 55 A (10 mm <sup>2</sup> ) |
| Contact resistance   | 0.2 mΩ                     |

## Ex connection data Feed-in contact

|                              |                                            |
|------------------------------|--------------------------------------------|
| Stripping length             | 10 mm ... 12 mm                            |
| Nominal cross section        | 6 mm <sup>2</sup>                          |
| Rated cross section AWG      | 10                                         |
| Connection capacity rigid    | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Connection capacity AWG      | 20 ... 8                                   |
| Connection capacity flexible | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Connection capacity AWG      | 20 ... 8                                   |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 56.5 mm |
| Height             | 45.7 mm |
| Depth on NS 35/7,5 | 30.9 mm |

## Material specifications

|                                        |                 |
|----------------------------------------|-----------------|
| Color                                  | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0              |
| Insulating material group              | I               |
| Insulating material                    | PA              |

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

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## Ambient conditions

|                                          |                                                                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)          | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see 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 (operation)         | 20 % ... 90 %                                                                                                                |
| Permissible humidity (storage/transport) | 30 % ... 70 %                                                                                                                |

## Mounting

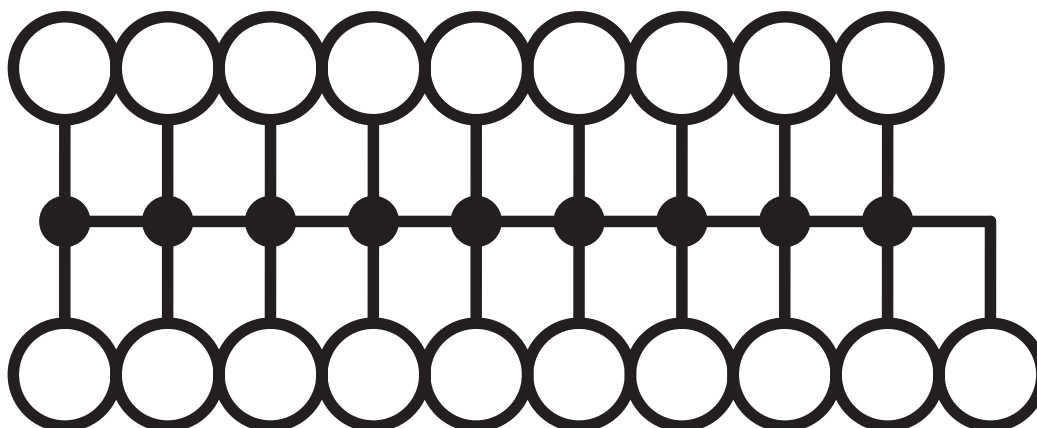
|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|               | NS 35/15  |

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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1221450>



**IECEx**

Approval ID: IECExSEV21.0023U



**ATEX**

Approval ID: SEV21ATEX0557U



**CCC**

Approval ID: 2022122313115884



**UKCA-EX**

Approval ID: CML 22UKEX3672U

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250118 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000897 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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