

# XTVMED 6-PE - Protective conductor terminal block



1446171

<https://www.phoenixcontact.com/gb/products/1446171>

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Protective conductor terminal block, connection method: Push-X-connection, Rated cross section: 6 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, color: green-yellow



## Your advantages

- Feed-through terminal blocks of the same shape are available
- Clear
- Clear selection thanks to printed switching symbols
- Easy operation
- Compact design
- Six function shafts
- Flexible and comprehensive accessories
- Reliably snapped into the end positions

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1446171       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE2533        |
| Product key                          | BE2533        |
| GTIN                                 | 4063151831820 |
| Weight per piece (including packing) | 28.302 g      |
| Weight per piece (excluding packing) | 29.222 g      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | Ground terminal block |
| Number of positions   | 1                     |
| Number of connections | 2                     |
| Number of rows        | 1                     |

### Insulation characteristics

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

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Maximum power dissipation for nominal condition | 1.31 W |
|-------------------------------------------------|--------|

### Connection data

|                                                                   |                                            |
|-------------------------------------------------------------------|--------------------------------------------|
| Number of connections per level                                   | 2                                          |
| Nominal cross section                                             | 6 mm <sup>2</sup>                          |
| Rated cross section AWG                                           | 8                                          |
| Stripping length                                                  | 10 mm ... 12 mm                            |
| Internal cylindrical gage                                         | A5                                         |
| Conductor cross section rigid                                     | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Cross section AWG                                                 | 20 ... 8 (converted acc. to IEC)           |
| Conductor cross section flexible                                  | 1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| Nominal cross section                                             | 6 mm <sup>2</sup>                          |

### Dimensions

|        |          |
|--------|----------|
| Width  | 8.2 mm   |
| Height | 105.4 mm |
| Depth  | 48.7 mm  |

### Material specifications

|                                                                  |              |
|------------------------------------------------------------------|--------------|
| Color                                                            | green-yellow |
| Flammability rating according to UL 94                           | V0           |
| Insulating material group                                        | I            |
| Insulating material                                              | PA           |
| Static insulating material application in cold                   | -60 °C       |
| Relative insulation material temperature index (Elec., UL 746 B) | 125 °C       |
| 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  |

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|                                                         |        |
|---------------------------------------------------------|--------|
| Surface flammability NFPA 130 (ASTM E 162)              | passed |
| Specific optical density of smoke NFPA 130 (ASTM E 662) | passed |
| Smoke gas toxicity NFPA 130 (SMP 800C)                  | passed |

## Mechanical properties

### Mechanical data

|                 |     |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

## Environmental and real-life conditions

### Oscillation/broadband noise

|                        |                                                |
|------------------------|------------------------------------------------|
| Specification          | DIN EN 50155 (VDE 0115-200):2022-06            |
| Spectrum               | Long life test category 2, bogie-mounted       |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | $6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$      |
| Acceleration           | 3.12g                                          |
| Test duration per axis | 5 h                                            |
| Test directions        | X-, Y- and Z-axis                              |
| Result                 | Test passed                                    |

### Shocks

|                                |                                     |
|--------------------------------|-------------------------------------|
| Specification                  | DIN EN 50155 (VDE 0115-200):2022-06 |
| 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

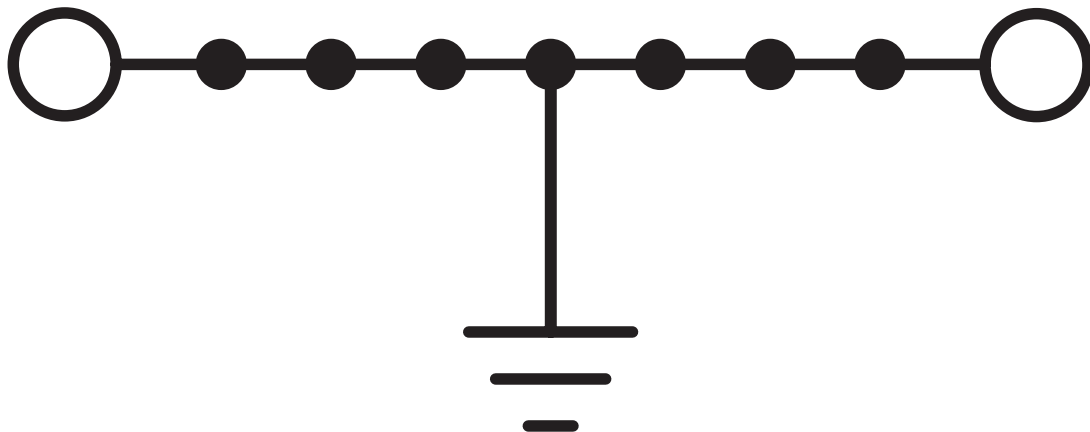
|                                          |                                                                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)          | -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  |

## Drawings

Circuit diagram



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## Approvals

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|  <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                                                                                                                      | -                     | -                     | 20 - 8            | -                           |
| Use group C                                                                                                                      | -                     | -                     | 20 - 8            | -                           |
| Use group D                                                                                                                      | -                     | -                     | 20 - 8            | -                           |

|  <b>CSA</b><br>Approval ID: 2030668 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                                                                                                          | -                     | -                     | 20 - 8            | -                           |
| Use group C                                                                                                          | -                     | -                     | 20 - 8            | -                           |
| Use group D                                                                                                          | -                     | -                     | 20 - 8            | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250109 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000902 |
|----------|----------|

### 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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