

# MPT 2,5 BU - Mini feed-through terminal block



3248126

<https://www.phoenixcontact.com/us/products/3248126>

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Mini feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 2, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm<sup>2</sup>, 1 level, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 15, color: blue

## Your advantages

- Significant space savings with the compact design
- Increased flexibility with single function shafts
- Clear arrangement with marking grooves on each individual terminal point
- Time-saving conductor connection with tool-free and maintenance-free Push-in connection technology
- Testing options for all common test probes

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3248126       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE22          |
| Product key                          | BE2261        |
| GTIN                                 | 4046356768757 |
| Weight per piece (including packing) | 5.67 g        |
| Weight per piece (excluding packing) | 5.615 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                       |                          |
|-----------------------|--------------------------|
| Product type          | Miniature terminal block |
| Area of application   | Railway industry         |
|                       | Machine building         |
|                       | Plant engineering        |
| Number of positions   | 1                        |
| Number of connections | 2                        |
| 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 | 0.77 W |

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Number of connections per level | 2                   |
| Nominal cross section           | 2.5 mm <sup>2</sup> |
| Rated cross section AWG         | 12                  |

#### 1 level

|   |   |
|---|---|
| Connection method   | Push-in connection  |
| Stripping length  | 8 mm ... 10 mm  |
| Internal cylindrical gage   | A3  |
| Connection in acc. with standard  | IEC 60947-7-1   |
| Conductor cross-section rigid   | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>                |
| Cross section AWG   | 26 ... 12 (converted acc. to IEC)                         |
| Conductor cross-section flexible  | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>              |
| Conductor cross-section, flexible [AWG]   | 26 ... 14 (converted acc. to IEC)                         |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>              |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>              |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup>                                       |
| Nominal cross section   | 2.5 mm <sup>2</sup>                                       |
| Nominal current   | 24 A (with a 2.5 mm <sup>2</sup> conductor cross-section) |
| Maximum load current  | 27 A (with 4 mm <sup>2</sup> conductor cross-section)     |
| Nominal voltage   | 500 V   |

#### 1 level Connection cross sections directly pluggable

|                               |  |
|-------------------------------|--|
| Conductor cross-section rigid | 0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
|-------------------------------|--|

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|   |  |
|---|--|
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

## Ex data

### Rated data (ATEX/IECEX)

|   |   |
|---|---|
| Identification                                      | ⊕ II 2 GD Ex eb IIC Gb  |
| Operating temperature range                         | -60 °C ... 110 °C   |
| Ex-certified accessories                            | 3248140 D-MPT 2,5<br>1204504 SZF 0-0,4X2,5<br>3022263 CLIPFIX 15  |
| List of bridges                                     | Plug-in bridge / FBS 2-5 / 3030161<br>Plug-in bridge / FBS 3-5 / 3030174<br>Plug-in bridge / FBS 4-5 / 3030187<br>Plug-in bridge / FBS 5-5 / 3030190<br>Plug-in bridge / FBS 10-5 / 3030213<br>Plug-in bridge / FBS 20-5 / 3030226<br>Plug-in bridge / FBS 50-5 / 3038930 |
| Bridge data   | 20 A (2.5 mm <sup>2</sup> )   |
| Ex temperature increase<br>for bridging with bridge | 40 K (20 A / 2.5 mm <sup>2</sup> )<br>440 V   |
| - At bridging between non-adjacent terminal blocks  | 352 V   |
| - At cut-to-length bridging                         | 220 V   |
| - At cut-to-length bridging with cover              | 440 V   |
| Rated insulation voltage<br>output                  | 400 V<br>(Permanent)  |

### Ex level General

|                      |        |
|----------------------|--------|
| Rated voltage        | 440 V  |
| Rated current        | 20.5 A |
| Maximum load current | 24 A   |
| Contact resistance   | 0.8 mΩ |

### Ex connection data General

|                              |  |
|------------------------------|--|
| 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> ... 4 mm <sup>2</sup> |
| Connection capacity AWG      | 26 ... 12                                  |

## Dimensions

|                 |         |
|-----------------|---------|
| Width           | 5.2 mm  |
| End cover width | 2.2 mm  |
| Height          | 36 mm   |
| Depth           | 32.1 mm |

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|                |         |
|----------------|---------|
| Depth on NS 15 | 32.8 mm |
|----------------|---------|

## Material specifications

|  |                 |
|--|-----------------|
| Color  | blue (RAL 5015) |
| 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) | 130 °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     |
| 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          |

## Electrical tests

### Surge voltage test

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 7.3 kV      |
| Result                | Test passed |

### Temperature-rise test

|  |                                     |
|--|-------------------------------------|
| Requirement temperature-rise test                | Increase in temperature $\leq 45$ K |
| Result   | Test passed                         |
| Short-time withstand current 2.5 mm <sup>2</sup> | 0.3 kA                              |
| Short-time withstand current 4 mm <sup>2</sup>   | 0.48 kA                             |
| Result   | Test passed                         |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 1.89 kV     |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

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

## Mechanical tests

### Mechanical strength

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

### Attachment on the carrier

|                         |       |
|-------------------------|-------|
| DIN rail/fixing support | NS 15 |
| Test force setpoint     | 1 N   |

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|  |                               |
|--|-------------------------------|
| Result                                   | Test passed                   |
| Test for conductor damage and slackening |                               |
| Conductor cross-section/weight           | 0.14 mm <sup>2</sup> / 0.2 kg |
|  | 2.5 mm <sup>2</sup> / 0.7 kg  |
|  | 4 mm <sup>2</sup> / 0.9 kg    |
| Result                                   | Test passed                   |

## Environmental and real-life conditions

### Aging

|                    |             |
|--------------------|-------------|
| Temperature cycles | 192         |
| Result             | Test passed |

### Needle-flame test

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

### Oscillation/broadband noise

|                        |  |
|------------------------|--|
| Specification          | DIN EN 50155 (VDE 0115-200):2008-03            |
| Spectrum               | Long life test category 2, bogie-mounted       |
| 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           | 3.12g  |
| Test duration per axis | 5 h  |
| Test directions        | X-, Y- and Z-axis                              |
| Result                 | Test passed                                    |

### Shocks

|                                |                                     |
|--------------------------------|-------------------------------------|
| Specification                  | DIN EN 50155 (VDE 0115-200):2008-03 |
| 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 %  |

## Standards and regulations

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|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

## Mounting

|               |       |
|---------------|-------|
| Mounting type | NS 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/us/products/3248126>


|  <b>CSA</b><br>Approval ID: 158887 |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B   | 300 V                 | 20 A                  | 26 - 12           | -                    |
| C   | 300 V                 | 20 A                  | 26 - 12           | -                    |
| D   | 600 V                 | 5 A                   | 26 - 12           | -                    |

|  <b>IECEE CB Scheme</b><br>Approval ID: DE1-62773 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  | 500 V                 | 24 A                  | -                 | - 2.5                |

|  <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00644 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>VDE Zeichengenehmigung</b><br>Approval ID: 40040312 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

| <b>DNV</b><br>Approval ID: TAE00003J4 |  |  |  |  |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B  | 300 V                 | 20 A                  | 26 - 12           | -                    |
| C  | 300 V                 | 20 A                  | 26 - 12           | -                    |
| D  | 600 V                 | 5 A                   | 26 - 12           | -                    |

|  <b>CCC</b> |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

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Approval ID: 2020322313000629



**UKCA-EX**

Approval ID: CML 22UKEX1228U



**EAC Ex**

Approval ID: KZ 7500525010101950



**IEC Ex**

Approval ID: IECExSEV14.0010U

|                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine                    |                       |                       |                   |                             |
| Only flexible conductors | 440 V                 | 20.5 A                | -                 | 0.14 - 2.5                  |
| Only rigid conductors    | 440 V                 | 20.5 A                | -                 | 0.14 - 4                    |



**ATEX**

Approval ID: SEV14ATEX0140U

|                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine                    |                       |                       |                   |                             |
| Only flexible conductors | 440 V                 | 20.5 A                | -                 | 0.14 - 2.5                  |
| Only rigid conductors    | 440 V                 | 20.5 A                | -                 | 0.14 - 4                    |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250101 |
| ECLASS-15.0 | 27250101 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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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