

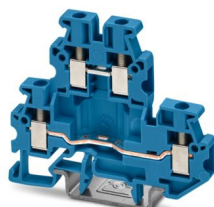
# MUTTB 2,5 BU - Mini feed-through terminal block



3249014

<https://www.phoenixcontact.com/nl/products/3249014>

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Mini feed-through terminal block, nom. voltage: 500 V, nominal current: 22 A, connection method: Screw connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 15, NS 35/7,5, NS 35/15, color: blue

## Your advantages

- Fixed bridges and test sockets can be used on both levels
- Space saving thanks to compact design and mounting option on a 15 mm DIN rail
- Clear arrangement thanks to marking of all terminal points
- Easy potential distribution thanks to standardized plug-in bridges

## Commercial data

|                                      |                                                                     |
|--------------------------------------|---------------------------------------------------------------------|
| Item number                          | 3249014                                                             |
| Packing unit                         | 50 pc                                                               |
| Minimum order quantity               | 50 pc                                                               |
| Sales key                            | BE1164                                                              |
| Product key                          | BE1164                                                              |
| GTIN                                 | 4055626405094                                                       |
| Weight per piece (including packing) | 13,02 g                                                             |
| Weight per piece (excluding packing) | 13,02 g                                                             |
| Customs tariff number                | 85369010                                                            |
| Country of origin                    | Information on the country of origin is provided with the delivery. |

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## Technical data

### Product properties

|                       |   |
|-----------------------|---|
| Number of positions   | 2 |
| Number of connections | 4 |
| Number of rows        | 2 |
| Potentials            | 2 |

### Insulation characteristics

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

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| 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>                                       |
| Connection method                                                                         | Screw connection                                          |
| Screw thread                                                                              | M3                                                        |
| Stripping length                                                                          | 7 mm ... 9 mm                                             |
| Internal cylindrical gage                                                                 | A3                                                        |
| Connection in acc. with standard                                                          | IEC 60947-7-1                                             |
| Conductor cross-section rigid                                                             | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>                 |
| Cross section AWG                                                                         | 24 ... 12 (converted acc. to IEC)                         |
| Conductor cross-section flexible                                                          | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>               |
| Conductor cross-section, flexible [AWG]                                                   | 4 ... 14 (converted acc. to IEC)                          |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>              |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>              |
| 2 conductors with same cross section, rigid                                               | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>               |
| 2 conductors with the same cross-section AWG rigid                                        | 24 ... 16 (converted acc. to IEC)                         |
| 2 conductors with same cross section, flexible                                            | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>               |
| 2 conductors with the same cross-section AWG flexible                                     | 24 ... 16 (converted acc. to IEC)                         |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>               |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>               |
| Nominal cross section                                                                     | 2.5 mm <sup>2</sup>                                       |
| Nominal current                                                                           | 22 A (with a 2.5 mm <sup>2</sup> conductor cross-section) |
| Maximum load current                                                                      | 28 A (with 4 mm <sup>2</sup> conductor cross-section)     |
| Nominal voltage                                                                           | 500 V                                                     |

### Ex data

#### Rated data (ATEX/IECEx)

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|                                                    |                                                                                                                                                                                                                                                                           |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identification                                     | II 2 GD Ex eb IIC Gb                                                                                                                                                                                                                                                      |
| Operating temperature range                        | -60 °C ... 110 °C                                                                                                                                                                                                                                                         |
| Ex-certified accessories                           | 3249016 D-MUTTB 2,5<br>1462738 DP-MUTTB 2,5<br>1205053 SZS 0,6X3,5<br>3022263 CLIPFIX 15<br>3022276 CLIPFIX 35-5                                                                                                                                                          |
| 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                                        | 19 A / 2.5 mm²                                                                                                                                                                                                                                                            |
| Ex temperature increase                            | 40 K (19 A / 2.5 mm²)                                                                                                                                                                                                                                                     |
| for bridging with bridge                           | 275 V                                                                                                                                                                                                                                                                     |
| - At bridging between non-adjacent terminal blocks | 220 V                                                                                                                                                                                                                                                                     |
| Rated insulation voltage                           | 250 V                                                                                                                                                                                                                                                                     |
| output                                             | (Permanent)                                                                                                                                                                                                                                                               |

## Ex level General

|                      |                |
|----------------------|----------------|
| Rated voltage        | 275 V          |
| Rated current        | 19 A (2.5 mm²) |
| Maximum load current | 24 A (4 mm²)   |

## Ex connection data

|                                                       |                     |
|-------------------------------------------------------|---------------------|
| Torque range                                          | 0.5 Nm ... 0.6 Nm   |
| Connection capacity rigid                             | 0.2 mm² ... 4 mm²   |
| Connection capacity AWG                               | 24 ... 12           |
| Connection capacity flexible                          | 0.2 mm² ... 2.5 mm² |
| Connection capacity AWG                               | 24 ... 14           |
| 2 conductors with same cross section, solid           | 0.2 mm² ... 1.5 mm² |
| 2 conductors with the same cross-section AWG rigid    | 24 ... 16           |
| 2 conductors with same cross section, stranded        | 0.2 mm² ... 1.5 mm² |
| 2 conductors with the same cross-section AWG flexible | 24 ... 16           |
| output                                                | (Permanent)         |

## Ex level Level 1

|                    |             |
|--------------------|-------------|
| Contact resistance | 0.42 mΩ     |
| output             | (Permanent) |

## Ex level Level 2

|                    |         |
|--------------------|---------|
| Contact resistance | 0.27 mΩ |
|--------------------|---------|

## Dimensions

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|                    |         |
|--------------------|---------|
| Width              | 5.2 mm  |
| Height             | 63.5 mm |
| Depth              | 50.8 mm |
| Depth on NS 15     | 51.6 mm |
| Depth on NS 35/7,5 | 52.3 mm |
| Depth on NS 35/15  | 59.8 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

### Power-frequency withstand voltage

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

## Mechanical properties

### Mechanical data

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

## Mechanical tests

### Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 rpm                       |
| Revolutions                    | 135                          |
| Conductor cross-section/weight | 0.2 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

### Ambient conditions

|                                 |                                                                    |
|---------------------------------|--------------------------------------------------------------------|
| Ambient temperature (operation) | -60 °C ... 110 °C (Operating temperature range incl. self-heating; |
|---------------------------------|--------------------------------------------------------------------|

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|                                          |                                                                           |
|------------------------------------------|---------------------------------------------------------------------------|
|                                          | 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

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

## Mounting

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

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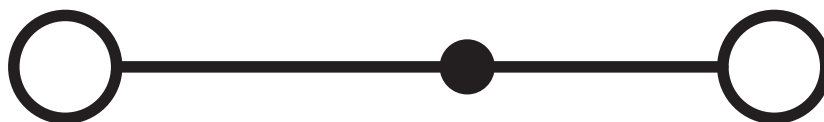


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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/3249014>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                                                                                                  | 150 V                 | 20 A                  | 24 - 12           | -                           |
| C                                                                                                                  | 150 V                 | 20 A                  | 24 - 12           | -                           |
| D                                                                                                                  | 300 V                 | 10 A                  | 24 - 12           | -                           |

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                                                                                                                | 150 V                 | 20 A                  | 24 - 12           | -                           |
| C                                                                                                                                | 150 V                 | 20 A                  | 24 - 12           | -                           |
| F                                                                                                                                | 500 V                 | 20 A                  | 24 - 12           | -                           |
| D                                                                                                                                | 300 V                 | 10 A                  | 24 - 12           | -                           |

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

|  <b>IECEX</b><br>Approval ID: IECEX SEV13.0012U |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                              |                       |                       |                   |                             |
| Only flexible conductors                                                                                                           | 275 V                 | 19 A                  | -                 | 0.2 - 2.5                   |
| Only rigid conductors                                                                                                              | 275 V                 | 24 A                  | -                 | 0.2 - 4                     |

|  <b>ATEX</b><br>Approval ID: SEV13ATEX0178U |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                          |                       |                       |                   |                             |

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|                          |       |        |   |           |
|--------------------------|-------|--------|---|-----------|
| Only flexible conductors | 275 V | 19.5 A | - | 0.2 - 2.5 |
| Only rigid conductors    | 275 V | 24 A   | - | 0.2 - 4   |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250102 |
| ECLASS-15.0 | 27250102 |

### 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  |
| Exemption                               | 6(c) |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 9577e8bf-9a72-4c8a-befe-4fbc08ccda36 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0,055 kg CO2e |
|---------|---------------|

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