

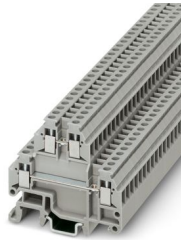
# MTTB 1,5 - Micro terminal



1414129

<https://www.phoenixcontact.com/sg/products/1414129>

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Micro terminal, nom. voltage: 400 V, nominal current: 17.5 A, connection method: Screw connection, 1st and 2nd level, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, mounting type: NS 15, NS 35/7,5, NS 35/15, color: gray

## Your advantages

- Nominal cross section of 1.5 mm<sup>2</sup>
- Snap-on foot for NS 15 and NS 35 DIN rails
- Design width of just 4.2 mm
- Clear arrangement thanks to marking of all terminal points
- Space saving thanks to compact design and mounting option on a 15 mm DIN rail
- Wide range of labeling options
- Bridging option on both levels

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1414129             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | 0113*               |
| Product key                          | BE1264              |
| Catalog page                         | Page 555 (C-1-2019) |
| GTIN                                 | 4017918105419       |
| Weight per piece (including packing) | 5.579 g             |
| Weight per piece (excluding packing) | 5.57 g              |
| Customs tariff number                | 85369010            |
| Country of origin                    | TR                  |

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## Technical data

### Product properties

|                       |                          |
|-----------------------|--------------------------|
| Product type          | Miniature terminal block |
| Number of connections | 4                        |
| Number of rows        | 2                        |
| Potentials            | 2                        |

### Insulation characteristics

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

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 4 kV   |
| Maximum power dissipation for nominal condition | 0.56 W |

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Number of connections per level | 2                   |
| Nominal cross section           | 1.5 mm <sup>2</sup> |

### 1st and 2nd level

|                                                                                     |                                                           |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Screw thread                                                                        | M2                                                        |
| Tightening torque                                                                   | 0.22 ... 0.25 Nm                                          |
| Stripping length                                                                    | 6 mm                                                      |
| Internal cylindrical gage                                                           | A1                                                        |
| Connection in acc. with standard                                                    | IEC 60947-7-1                                             |
| Conductor cross section rigid                                                       | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>              |
| Cross section AWG                                                                   | 26 ... 16 (converted acc. to IEC)                         |
| Conductor cross section flexible                                                    | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>              |
| Conductor cross section, flexible [AWG]                                             | 26 ... 16 (converted acc. to IEC)                         |
| Conductor cross-section flexible (ferrule without plastic sleeve)                   | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>             |
| Flexible conductor cross section (ferrule with plastic sleeve)                      | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>             |
| 2 conductors with same cross section, solid                                         | 0.14 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>              |
| 2 conductors with same cross section, flexible                                      | 0.14 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>              |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup>             |
| Nominal current                                                                     | 17.5 A                                                    |
| Maximum load current                                                                | 17.5 A (with 1.5 mm <sup>2</sup> conductor cross section) |
| Nominal voltage                                                                     | 400 V                                                     |
| Nominal cross section                                                               | 1.5 mm <sup>2</sup>                                       |

### Dimensions

|                 |        |
|-----------------|--------|
| Width           | 4.2 mm |
| End cover width | 1 mm   |
| Height          | 44 mm  |

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|                    |         |
|--------------------|---------|
| Depth on NS 15     | 41 mm   |
| Depth on NS 35/7,5 | 41 mm   |
| Depth on NS 35/15  | 48.5 mm |

## Material specifications

|                                                                  |                 |
|------------------------------------------------------------------|-----------------|
| Color                                                            | gray (RAL 7042) |
| 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 | 4.8 kV      |
| Result                | Test passed |

### Temperature-rise test

|                                                  |                                     |
|--------------------------------------------------|-------------------------------------|
| Requirement temperature-rise test                | Increase in temperature $\leq 45$ K |
| Result                                           | Test passed                         |
| Short-time withstand current 1.5 mm <sup>2</sup> | 0.18 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

|                     |     |
|---------------------|-----|
| Test force setpoint | 1 N |
|---------------------|-----|

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

## 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):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

|                                |                                   |
|--------------------------------|-----------------------------------|
| Pulse shape                    | Half-sine                         |
| Acceleration                   | 5g                                |
| Shock duration                 | 30 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

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

## Mounting

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

## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/1414129>

### DNV

Approval ID: TAE00001CT



### CSA

Approval ID: 13631

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 300 V                 | 15 A                  | 28 - 14           | -                           |



### EAC

Approval ID: EACKZ 08593



### cULus Recognized

Approval ID: E60425

|             | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Use group B |                       |                       |                   |                             |
|             | 300 V                 | 15 A                  | 30 - 14           | -                           |
| Use group F |                       |                       |                   |                             |
|             | 400 V                 | 15 A                  | 30 - 14           | -                           |
| Use group D |                       |                       |                   |                             |
|             | 300 V                 | 10 A                  | 30 - 14           | -                           |



### LR

Approval ID: LR2041789TA-02



### BV

Approval ID: 07774/E0 BV

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141120 |
| ECLASS-13.0 | 27250102 |

### 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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PHOENIX CONTACT SEA Pte. Ltd.  
105 Eunos Avenue 3, #04-00  
Singapore 409836  
+65 6228 4900  
[marketing@phoenixcontact.com.sg](mailto:marketing@phoenixcontact.com.sg)