

# MUT 4 - Mini feed-through terminal block



3248035

<https://www.phoenixcontact.com/us/products/3248035>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Mini feed-through terminal block, nom. voltage: 500 V, nominal current: 32 A, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 15, color: gray

## Your advantages

- 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                          | 3248035             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | BE01                |
| Product key                          | BE1161              |
| Catalog page                         | Page 171 (C-1-2019) |
| GTIN                                 | 4046356801492       |
| Weight per piece (including packing) | 6.446 g             |
| Weight per piece (excluding packing) | 5.851 g             |
| Customs tariff number                | 85369010            |
| Country of origin                    | TR                  |

# MUT 4 - Mini feed-through terminal block



3248035

<https://www.phoenixcontact.com/us/products/3248035>

## Technical data

### Product properties

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

### Data management status

|                  |    |
|------------------|----|
| Article revision | 09 |
|------------------|----|

### Insulation characteristics

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

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 6 kV   |
| Maximum power dissipation for nominal condition | 1.02 W |

### Connection data

|                                                                                           |                                                       |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Number of connections per level                                                           | 2                                                     |
| Nominal cross section                                                                     | 4 mm <sup>2</sup>                                     |
| Rated cross section AWG                                                                   | 10                                                    |
| Screw thread                                                                              | M3                                                    |
| Tightening torque                                                                         | 0.6 ... 0.8 Nm                                        |
| Stripping length                                                                          | 9 mm                                                  |
| Internal cylindrical gage                                                                 | A3                                                    |
|                                                                                           | B3                                                    |
| Connection in acc. with standard                                                          | IEC 60947-7-1                                         |
| Conductor cross section rigid                                                             | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>             |
| Cross section AWG                                                                         | 24 ... 10 (converted acc. to IEC)                     |
| Conductor cross section flexible                                                          | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>             |
| Conductor cross section, flexible [AWG]                                                   | 24 ... 10 (converted acc. to IEC)                     |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Flexible conductor cross section (ferrule with plastic sleeve)                            | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| 2 conductors with same cross section, solid                                               | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>           |
| 2 conductors with same cross section, flexible                                            | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>           |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.25 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> ... 2.5 mm <sup>2</sup>           |
| Nominal current                                                                           | 32 A (with 4 mm <sup>2</sup> conductor cross section) |
| Maximum load current                                                                      | 38 A (with 6 mm <sup>2</sup> conductor cross section) |
| Nominal voltage                                                                           | 500 V                                                 |

# MUT 4 - Mini feed-through terminal block



3248035

<https://www.phoenixcontact.com/us/products/3248035>

|                       |                   |
|-----------------------|-------------------|
| Nominal cross section | 4 mm <sup>2</sup> |
|-----------------------|-------------------|

## Ex data

### Rated data (ATEX/IECEX)

|                                                                          |                                     |
|--------------------------------------------------------------------------|-------------------------------------|
| Identification                                                           | Ex II 2 GD Ex eb IIC Gb             |
| Operating temperature range                                              | -60 °C ... 110 °C                   |
| Ex-certified accessories                                                 | 3248033 D-MUT 2,5/4                 |
|                                                                          | 1205053 SZS 0,6X3,5                 |
|                                                                          | 3022263 CLIPFIX 15                  |
| List of bridges                                                          | Plug-in bridge / FBS 2-6 / 3030336  |
|                                                                          | Plug-in bridge / FBS 3-6 / 3030242  |
|                                                                          | Plug-in bridge / FBS 4-6 / 3030255  |
|                                                                          | Plug-in bridge / FBS 5-6 / 3030349  |
|                                                                          | Plug-in bridge / FBS 10-6 / 3030271 |
|                                                                          | Plug-in bridge / FBS 20-6 / 3030365 |
| Bridge data                                                              | 24.5 A / 4 mm <sup>2</sup>          |
| Ex temperature increase                                                  | 40 K (27.88 A / 4 mm <sup>2</sup> ) |
| Rated voltage                                                            | 352 V                               |
| for bridging with bridge                                                 | 352 V                               |
| - At bridging between non-adjacent terminal blocks                       | 220 V                               |
| - At bridging between non-adjacent terminal blocks via PE terminal block | 220 V                               |
| - At cut-to-length bridging with cover                                   | 220 V                               |
| Rated insulation voltage                                                 | 320 V                               |
| output                                                                   | (Permanent)                         |

### Ex level General

|                      |         |
|----------------------|---------|
| Rated current        | 27.5 A  |
| Maximum load current | 32.5 A  |
| Contact resistance   | 0.25 mΩ |

### Ex connection data General

|                                                       |                                             |
|-------------------------------------------------------|---------------------------------------------|
| Torque range                                          | 0.6 Nm ... 0.8 Nm                           |
| Nominal cross section                                 | 4 mm <sup>2</sup>                           |
| Rated cross section AWG                               | 12                                          |
| Connection capacity rigid                             | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Connection capacity AWG                               | 24 ... 10                                   |
| Connection capacity flexible                          | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Connection capacity AWG                               | 24 ... 12                                   |
| 2 conductors with same cross section, solid           | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 2 conductors with the same cross-section AWG rigid    | 24 ... 16                                   |
| 2 conductors with same cross section, stranded        | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 2 conductors with the same cross-section AWG flexible | 24 ... 16                                   |

## Dimensions

# MUT 4 - Mini feed-through terminal block



3248035

<https://www.phoenixcontact.com/us/products/3248035>

|                 |         |
|-----------------|---------|
| Width           | 6.2 mm  |
| End cover width | 2.2 mm  |
| Height          | 29.9 mm |
| Depth on NS 15  | 34 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 | 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 4 mm <sup>2</sup> | 0.48 kA                             |
| Short-time withstand current 6 mm <sup>2</sup> | 0.72 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 |
|--------|-------------|

# MUT 4 - Mini feed-through terminal block



3248035

<https://www.phoenixcontact.com/us/products/3248035>

## Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 15       |
| Result                  | Test passed |

## Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 9 rpm                        |
| Revolutions                    | 135                          |
| Conductor cross section/weight | 0.2 mm <sup>2</sup> / 0.2 kg |
|                                | 4 mm <sup>2</sup> / 0.9 kg   |
|                                | 6 mm <sup>2</sup> / 1.4 kg   |
| 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):2008-03                 |
| Spectrum               | Service life test category 1, class B, body 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                    | Semi-sinusoidal                     |
| 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, no longer than 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 %                                                                                                                |

# MUT 4 - Mini feed-through terminal block



3248035

<https://www.phoenixcontact.com/us/products/3248035>

## Standards and regulations

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

## Mounting

|               |       |
|---------------|-------|
| Mounting type | NS 15 |
|---------------|-------|

# MUT 4 - Mini feed-through terminal block

3248035

<https://www.phoenixcontact.com/us/products/3248035>



## Drawings

Circuit diagram



# MUT 4 - Mini feed-through terminal block



3248035

<https://www.phoenixcontact.com/us/products/3248035>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3248035>

### DNV

Approval ID: TAE00003J4



### CSA

Approval ID: 13631

|             | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Use group B |                       |                       |                   |                             |
|             | 300 V                 | 30 A                  | 26 - 10           | -                           |
| Use group C |                       |                       |                   |                             |
|             | 300 V                 | 30 A                  | 26 - 10           | -                           |
| Use group D |                       |                       |                   |                             |
|             | 600 V                 | 5 A                   | 26 - 10           | -                           |



### IECEE CB Scheme

Approval ID: DE1-65791



### 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                 | 30 A                  | 24 - 10           | -                           |
| Use group C |                       |                       |                   |                             |
|             | 300 V                 | 30 A                  | 24 - 10           | -                           |



### VDE Zeichengenehmigung

Approval ID: 40038907



### EAC Ex

Approval ID: RU C-DE.HA91.B.00066



### IECEx

Approval ID: IECEx SEV13.0012U

|                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Only flexible conductors | 352 V                 | 27.5 A                | -                 | 0.2 - 4                     |
| Only rigid conductors    | 352 V                 | 32.5 A                | -                 | 0.2 - 6                     |

# MUT 4 - Mini feed-through terminal block



3248035

<https://www.phoenixcontact.com/us/products/3248035>

|                                                                                   |                                            |                       |                       |                             |
|-----------------------------------------------------------------------------------|--------------------------------------------|-----------------------|-----------------------|-----------------------------|
|  | <b>ATEX</b><br>Approval ID: SEV13ATEX0178U |                       |                       |                             |
|                                                                                   |                                            | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG           |
|                                                                                   | Only flexible conductors                   | 352 V                 | 27.5 A                | -                           |
|                                                                                   | Only rigid conductors                      | 352 V                 | 32.5 A                | -                           |
|                                                                                   |                                            |                       |                       | Cross section $\text{mm}^2$ |
|                                                                                   |                                            |                       |                       | 0.2 - 4                     |
|                                                                                   |                                            |                       |                       | 0.2 - 6                     |

|                                                                                   |                                             |  |  |  |
|-----------------------------------------------------------------------------------|---------------------------------------------|--|--|--|
|  | <b>CCC</b><br>Approval ID: 2020322313000629 |  |  |  |
|                                                                                   |                                             |  |  |  |

|                                                                                   |                                                |  |  |  |
|-----------------------------------------------------------------------------------|------------------------------------------------|--|--|--|
|  | <b>UKCA-EX</b><br>Approval ID: CML 22UKEX1226U |  |  |  |
|                                                                                   |                                                |  |  |  |

# MUT 4 - Mini feed-through terminal block



3248035

<https://www.phoenixcontact.com/us/products/3248035>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141120 |
| ECLASS-13.0 | 27250101 |

### ETIM

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

### UNSPSC

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

# MUT 4 - Mini feed-through terminal block



3248035  
<https://www.phoenixcontact.com/us/products/3248035>

## 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                                    | eccb9a5d-29c5-458e-b1e0-308a0e152c72                                                                                                                                                                                              |

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)