

# MBK 5/E - Mini feed-through terminal block



1415076  
<https://www.phoenixcontact.com/us/products/1415076>

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Mini feed-through terminal block, nom. voltage: 500 V, nominal current: 32 A, number of connections: 2, connection method: Screw connection, 1 level, cross section: 0.2 mm<sup>2</sup> - 4 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                          | 1415076            |
| Packing unit                         | 50 pc              |
| Minimum order quantity               | 50 pc              |
| Sales key                            | BE12               |
| Product key                          | BE1261             |
| Catalog page                         | Page 125 (CL-2002) |
| GTIN                                 | 4017918021368      |
| Weight per piece (including packing) | 7.78 g             |
| Weight per piece (excluding packing) | 7.42 g             |
| Customs tariff number                | 85369010           |
| Country of origin                    | PL                 |

# MBK 5/E - Mini feed-through terminal block



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## Technical data

### Product properties

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

### Insulation characteristics

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

### Electrical properties

|                                                 |      |
|-------------------------------------------------|------|
| Rated surge voltage                             | 6 kV |
| Maximum power dissipation for nominal condition | 0 W  |

### Connection data

|                                 |   |
|---------------------------------|---|
| Number of connections per level | 2 |
|---------------------------------|---|

#### 1 level

|                                                                                           |                                                       |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Screw thread                                                                              | M3                                                    |
| Tightening torque                                                                         | 0.6 ... 0.8 Nm                                        |
| Stripping length                                                                          | 8 mm                                                  |
| Internal cylindrical gage                                                                 | A4                                                    |
| 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> ... 4 mm <sup>2</sup>             |
| Conductor cross section, flexible [AWG]                                                   | 24 ... 12 (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> ... 2.5 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                                                  |
| Maximum load current                                                                      | 32 A (with 4 mm <sup>2</sup> conductor cross section) |
| Nominal voltage                                                                           | 500 V                                                 |

### Dimensions

|                 |        |
|-----------------|--------|
| Width           | 6.2 mm |
| End cover width | 1 mm   |

### Material specifications

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|                                                                         |             |
|-------------------------------------------------------------------------|-------------|
| Color                                                                   | gray        |
| Flammability rating according to UL 94                                  | V0          |
| Insulating material group                                               | I           |
| Insulating material                                                     | PA          |
| Static insulating material application in cold                          | -60 °C      |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °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 |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 27,5 MJ/kg  |
| 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                             |
| 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         |
| Result                  | Test passed |

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## 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 |
|                                | 4 mm <sup>2</sup> / 0.9 kg   |
| Result                         | Test passed                  |

## Environmental and real-life conditions

### Needle-flame test

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

### Ambient conditions

|                                          |                                                                           |
|------------------------------------------|---------------------------------------------------------------------------|
| 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 (storage/transport) | 30 % ... 70 %                                                             |

## Standards and regulations

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

## Mounting

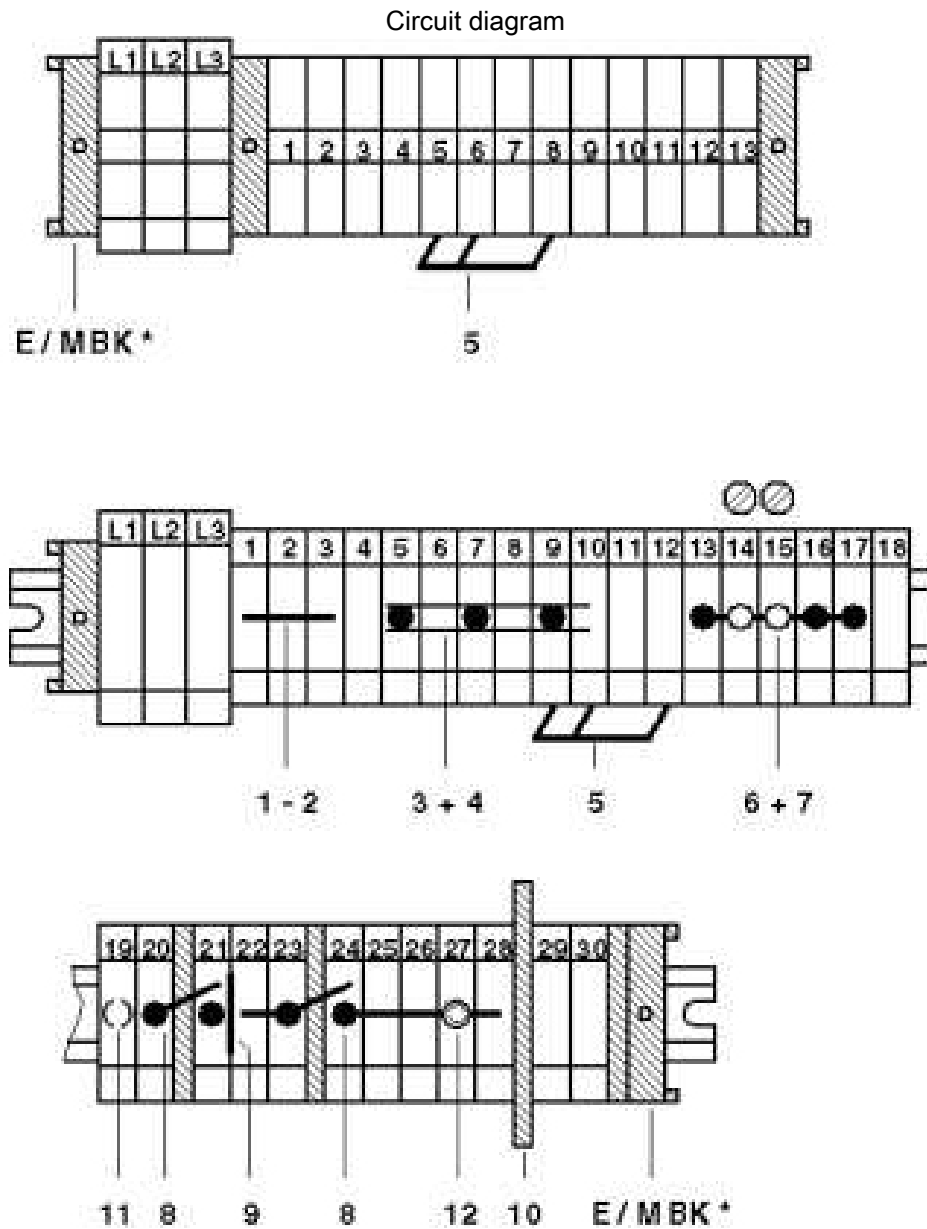
|               |       |
|---------------|-------|
| Mounting type | NS 15 |
|---------------|-------|

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## Drawings



# MBK 5/E - Mini feed-through terminal block

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1415076>

**DNV**  
Approval ID: TAE00001CT

**CSA**  
Approval ID: 13631

**EAC**  
Approval ID: RU C-DE.BL08.B.00534

|                                                                                   |                                                |                       |                   |                             |
|-----------------------------------------------------------------------------------|------------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <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                                                                       |                                                |                       |                   |                             |
|                                                                                   | 600 V                                          | 30 A                  | 26 - 10           | -                           |
| Use group C                                                                       |                                                |                       |                   |                             |
|                                                                                   | 600 V                                          | 30 A                  | 26 - 10           | -                           |

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## Classifications

### ECLASS

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

### 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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## Accessories



Note: Applying some accessories below might limit this product.

### IS-K 4 - Bridge bar isolator

1302338

<https://www.phoenixcontact.com/us/products/1302338>



Bridge bar isolator, color: gray

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### ISSBI 10- 6 - Bridge

0301505

<https://www.phoenixcontact.com/us/products/0301505>



Bridge, pitch: 6 mm, number of positions: 10, color: silver



Max. current carrying capacity: 22 A

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## FBI 100- 6 - Fixed bridge

0201650

<https://www.phoenixcontact.com/us/products/0201650>



Fixed bridge, pitch: 6.2 mm, number of positions: 100, color: silver

 Max. current carrying capacity: 28 A

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## FBI 10- 6 - Fixed bridge

0203250

<https://www.phoenixcontact.com/us/products/0203250>



Fixed bridge, pitch: 6.2 mm, number of positions: 10, color: silver

 Max. current carrying capacity: 28 A

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<https://www.phoenixcontact.com/us/products/1415076>

## FBI 20- 6 - Fixed bridge

0201867

<https://www.phoenixcontact.com/us/products/0201867>

Fixed bridge, pitch: 6.2 mm, number of positions: 20, color: silver



 Max. current carrying capacity: 28 A

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## EB 3- 6 - Insertion bridge

0201142

<https://www.phoenixcontact.com/us/products/0201142>

Insertion bridge, pitch: 6.2 mm, number of positions: 3, color: gray



 Max. current carrying capacity: 26 A

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## EB 2- 6 - Insertion bridge

0201155

<https://www.phoenixcontact.com/us/products/0201155>

Insertion bridge, pitch: 6.2 mm, number of positions: 2, color: gray



 Max. current carrying capacity: 26 A

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## EB 10- 6 - Insertion bridge

0201139

<https://www.phoenixcontact.com/us/products/0201139>

Insertion bridge, pitch: 6.2 mm, number of positions: 10, color: gray



 Max. current carrying capacity: 26 A

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# MBK 5/E - Mini feed-through terminal block

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## SBRN 2-9 - Switching jumper

1415238

<https://www.phoenixcontact.com/us/products/1415238>



Switching bridge, 2-pos.

 Max. current carrying capacity: 24 A

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## SBRN 2-7 - Switching jumper

1413230

<https://www.phoenixcontact.com/us/products/1413230>



Switching jumper, pitch: 7 mm, number of positions: 2, color: silver

 Max. current carrying capacity: 24 A

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<https://www.phoenixcontact.com/us/products/1415076>



## D-MBK/E - End cover

1415021

<https://www.phoenixcontact.com/us/products/1415021>



End cover, width: 1 mm, height: 26.2 mm, color: gray

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## FB-150 METER - Fixed bridge

0201595

<https://www.phoenixcontact.com/us/products/0201595>



Cross connection rail, for fixed bridging of identical inputs and outputs, made of Cu, nickel-plated, 1 m long

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<https://www.phoenixcontact.com/us/products/1415076>



## RPS - Reducing plug

0201647

<https://www.phoenixcontact.com/us/products/0201647>

Reducing plug, number of positions: 1, color: gray



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## TS-KK 3 - Separating plate

2770215

<https://www.phoenixcontact.com/us/products/2770215>

Separating plate, depth: 16 mm, width: 0.5 mm, height: 14 mm, color: gray



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### ATP-MBK - Partition plate

1413227

<https://www.phoenixcontact.com/us/products/1413227>



Partition plate, depth: 30.5 mm, width: 2.5 mm, height: 42.5 mm, color: gray

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### BN-ZB 6,2/WH CUS - Marker pin Zack strip

0824276

<https://www.phoenixcontact.com/us/products/0824276>



Marker pin Zack strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: plug in, for terminal block width: 6.2 mm, lettering field size: 4 x 4 mm

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## SF-SL 0,6X3,5-100 S-VDE - Screwdriver

1212587

<https://www.phoenixcontact.com/us/products/1212587>



Actuation tool, for ST terminal blocks, VDE insulated, with slimmer insulation integrated in the blade, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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## NS 15 UNPERF 2000MM VPE 10 - DIN rail, unperforated

1401695

<https://www.phoenixcontact.com/us/products/1401695>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

## MBK 5/E - Mini feed-through terminal block

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<https://www.phoenixcontact.com/us/products/1415076>



### NS 15 PERF 2000MM VPE 10 - DIN rail perforated

1401682

<https://www.phoenixcontact.com/us/products/1401682>



DIN rail perforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

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### NS 15 AL PERF 2000MM VPE 10 - DIN rail perforated

1401763

<https://www.phoenixcontact.com/us/products/1401763>



DIN rail perforated, Pack of 10 (20 m), acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

## MBK 5/E - Mini feed-through terminal block

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<https://www.phoenixcontact.com/us/products/1415076>



## NS 15 WH PERF 2000MM-VPE 10 - DIN rail perforated

1204096

<https://www.phoenixcontact.com/us/products/1204096>



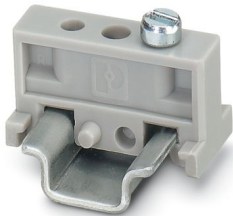
DIN rail perforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

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## E/MBK - End bracket

1401637

<https://www.phoenixcontact.com/us/products/1401637>



End clamp, width: 6.2 mm, color: gray

# MBK 5/E - Mini feed-through terminal block



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<https://www.phoenixcontact.com/us/products/1415076>

## E/MK - End bracket

1421633

<https://www.phoenixcontact.com/us/products/1421633>

End clamp, width: 6.2 mm, color: gray



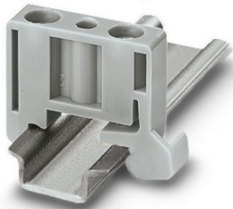
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## E/MK 1 - End bracket

1421659

<https://www.phoenixcontact.com/us/products/1421659>

End clamp width: 6 mm, color: gray



# MBK 5/E - Mini feed-through terminal block

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<https://www.phoenixcontact.com/us/products/1415076>



## PSBJ 3/13/4 - Test plug strip

0201304

<https://www.phoenixcontact.com/us/products/0201304>



Test plug strip, number of positions: 1, color: silver

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## PSB 3/10/4 - Test plug strip

0601292

<https://www.phoenixcontact.com/us/products/0601292>



Test plug strip, number of positions: 1, color: silver

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