

# TB 6 I - Feed-through terminal block

3000486

<https://www.phoenixcontact.com/no/products/3000486>



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Feed-through terminal block, nom. voltage: 800 V, nominal current: 41 A, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 6 mm<sup>2</sup>, cross section: 1.5 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, color: dark gray

## Commercial data

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| Item number                          | 3000486                                           |
| Packing unit                         | 50 pc                                             |
| Minimum order quantity               | 50 pc                                             |
| Sales key                            | 31BBE                                             |
| Product key                          | BEK211                                            |
| GTIN                                 | 4046356608411                                     |
| Weight per piece (including packing) | 11.94 g                                           |
| Weight per piece (excluding packing) | 11.94 g                                           |
| Customs tariff number                | 85369010                                          |
| Country of origin                    | Country of origin will be provided upon delivery. |

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## Technical data

### Product properties

|                       |    |
|-----------------------|----|
| Product family        | TB |
| 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                             | 8 kV   |
| Maximum power dissipation for nominal condition | 1.31 W |

### Connection data

|                                                                                     |                                                    |
|-------------------------------------------------------------------------------------|----------------------------------------------------|
| Number of connections per level                                                     | 2                                                  |
| Nominal cross section                                                               | 6 mm <sup>2</sup>                                  |
| Rated cross section AWG                                                             | 8                                                  |
| Connection method                                                                   | Screw connection                                   |
| Screw thread                                                                        | M4                                                 |
| Tightening torque                                                                   | 1.4 ... 1.5 Nm                                     |
| Stripping length                                                                    | 10 mm                                              |
| Internal cylindrical gage                                                           | A5                                                 |
| Connection in acc. with standard                                                    | IEC 60947-7-1                                      |
| Conductor cross-section rigid                                                       | 1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>          |
| Cross section AWG                                                                   | 14 ... 10 (converted acc. to IEC)                  |
| Conductor cross-section flexible                                                    | 1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>          |
| Conductor cross-section, flexible [AWG]                                             | 14 ... 10 (converted acc. to IEC)                  |
| Conductor cross-section flexible (ferrule without plastic sleeve)                   | 1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>          |
| Flexible conductor cross-section (ferrule with plastic sleeve)                      | 1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>          |
| Cross-section with insertion bridge, rigid                                          | 1 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Cross-section with insertion bridge, flexible                                       | 1 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| 2 conductors with same cross section, rigid                                         | 1 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| 2 conductors with the same cross-section AWG rigid                                  | 16 ... 10 (converted acc. to IEC)                  |
| 2 conductors with same cross section, flexible                                      | 1 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| 2 conductors with the same cross-section AWG flexible                               | 16 ... 10 (converted acc. to IEC)                  |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| Nominal cross section                                                               | 6 mm <sup>2</sup>                                  |
| Nominal current                                                                     | 41 A                                               |
| Maximum load current                                                                | 41 A (with 6 mm <sup>2</sup> conductor connection) |

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|                 |       |
|-----------------|-------|
| Nominal voltage | 800 V |
|-----------------|-------|

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 8.2 mm  |
| End cover width    | 1.8 mm  |
| Height             | 42.5 mm |
| Depth on NS 32     | 52 mm   |
| Depth on NS 35/7,5 | 47 mm   |
| Depth on NS 35/15  | 54.5 mm |

## Material specifications

|                                                                  |                           |
|------------------------------------------------------------------|---------------------------|
| Color                                                            | traffic gray B (RAL 7043) |
| 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 | 9.8 kV      |
| Result                | Test passed |

### Temperature-rise test

|                                                |                                     |
|------------------------------------------------|-------------------------------------|
| Requirement temperature-rise test              | Increase in temperature $\leq 45$ K |
| Result                                         | Test passed                         |
| Short-time withstand current 6 mm <sup>2</sup> | 0.72 kA                             |
| Result                                         | Test passed                         |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 2 kV        |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

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

## Mechanical tests

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## Mechanical strength

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

## Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Test force setpoint     | 5 N         |
| Result                  | Test passed |

## Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 rpm                       |
| Revolutions                    | 135                          |
| Conductor cross-section/weight | 1.5 mm <sup>2</sup> / 0.4 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          | EN 50155:2021-07                               |
| 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

|                                |                                   |
|--------------------------------|-----------------------------------|
| 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 %                                                                                                                |

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|                                          |
|------------------------------------------|
| Permissible humidity (storage/transport) |
|------------------------------------------|

|               |
|---------------|
| 30 % ... 70 % |
|---------------|

## Standards and regulations

|                                  |
|----------------------------------|
| Connection in acc. with standard |
|----------------------------------|

|               |
|---------------|
| IEC 60947-7-1 |
|---------------|

## Mounting

|               |
|---------------|
| Mounting type |
|---------------|

|           |
|-----------|
| NS 35/7,5 |
|-----------|

|          |
|----------|
| NS 35/15 |
|----------|

|       |
|-------|
| NS 32 |
|-------|

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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/no/products/3000486>

|                                                                                                                                              |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| <div> <b>cULus Recognized</b><br/>Approval ID: E60425</div> |                       |                       |                   |                             |
|                                                                                                                                              | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                                                                                                                            |                       |                       |                   |                             |
|                                                                                                                                              | 600 V                 | 50 A                  | 16 - 8            | -                           |
| C                                                                                                                                            |                       |                       |                   |                             |
|                                                                                                                                              | 600 V                 | 50 A                  | 16 - 8            | -                           |

|                                                                                                                                             |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| <div> <b>EAC</b><br/>Approval ID: KZ7500651131219505</div> |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250101 |
| ECLASS-15.0 | 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%               |
| EF3.1 Climate Change                    |                                          |
| CO2e kg                                 | 0.138 kg CO2e                            |

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## Accessories



Note: Applying some accessories below might limit this product.

### SCBI 10-8 - Fixed bridge

3246133

<https://www.phoenixcontact.com/no/products/3246133>



Fixed bridge, number of positions: 10, color: silver-colored



Max. current carrying capacity: 38 A

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### SCBI 10-8 W - Screw bridge

3000835

<https://www.phoenixcontact.com/no/products/3000835>



Screw bridge, with spring washer and insulating collar, pitch: 8.2 mm, number of positions: 10, color: silver-colored



Max. current carrying capacity: 38 A

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## INB 10-8 - Insertion bridge

3246191

<https://www.phoenixcontact.com/no/products/3246191>



Insertion bridge, Bridging in the terminal point, pitch: 8 mm, number of positions: 10, color: gray

 Max. current carrying capacity: 35 A

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## D-TB 4/10 - Cover

3059809

<https://www.phoenixcontact.com/no/products/3059809>



Cover, depth: 35.9 mm, width: 1.8 mm, height: 42.5 mm, color: dark gray

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<https://www.phoenixcontact.com/no/products/3000486>



### TS-TB - Insulation plate

3062838

<https://www.phoenixcontact.com/no/products/3062838>



Insulation plate, for electrical isolation of neighboring bridges in the terminal center, depth: 22 mm, height: 22 mm, color: dark gray

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### ATP-TB - Partition plate

3046272

<https://www.phoenixcontact.com/no/products/3046272>



Partition plate, depth: 45.7 mm, width: 3 mm, height: 56 mm, color: dark gray

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## NS 32 PERF 2000MM-VPE 10 - DIN rail perforated

1201002

<https://www.phoenixcontact.com/no/products/1201002>



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

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## NS 32 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201015

<https://www.phoenixcontact.com/no/products/1201015>



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

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## PS-MT - Test plug

0311647

<https://www.phoenixcontact.com/no/products/0311647>

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



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## PS-IH WH - Insulating sleeve

0311566

<https://www.phoenixcontact.com/no/products/0311566>

Insulating sleeve, number of positions: 1, color: white



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### PS-IH RD - Insulating sleeve

0311579

<https://www.phoenixcontact.com/no/products/0311579>



Insulating sleeve, number of positions: 1, color: red

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### PS-IH BU - Insulating sleeve

0311582

<https://www.phoenixcontact.com/no/products/0311582>



Insulating sleeve, number of positions: 1, color: blue

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### PS-IH YE - Insulating sleeve

0311595

<https://www.phoenixcontact.com/no/products/0311595>

Insulating sleeve, number of positions: 1, color: yellow



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### PS-IH GN - Insulating sleeve

0311605

<https://www.phoenixcontact.com/no/products/0311605>

Insulating sleeve, number of positions: 1, color: green





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### PS-IH GY - Insulating sleeve

0311621

<https://www.phoenixcontact.com/no/products/0311621>



Insulating sleeve, number of positions: 1, color: gray

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### PS-IH BK - Insulating sleeve

0311634

<https://www.phoenixcontact.com/no/products/0311634>



Insulating sleeve, number of positions: 1, color: black

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## PS-IH VT - Insulating sleeve

0311618

<https://www.phoenixcontact.com/no/products/0311618>

Insulating sleeve, number of positions: 1, color: violet



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## ZB 8:UNBEDRUCKT - Zack marker strip

1052002

<https://www.phoenixcontact.com/no/products/1052002>

Zack marker strip, Strip, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 8.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 8.15 mm



## TB 6 I - Feed-through terminal block

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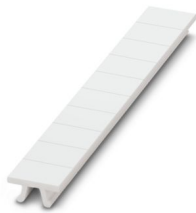
<https://www.phoenixcontact.com/no/products/3000486>



## ZB 8 CUS - Zack marker strip

0825011

<https://www.phoenixcontact.com/no/products/0825011>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 8.2 mm, Number of individual labels: 10, text field height: 8.15 mm, text field width: 10.5 mm

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## UC-TM 8 - Marker for terminal blocks

0818072

<https://www.phoenixcontact.com/no/products/0818072>



Marker for terminal blocks, Sheet, white, unmarked, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 8.2 mm, Number of individual labels: 56, text field height: 10.5 mm, text field width: 7.6 mm

# TB 6 I - Feed-through terminal block

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## UC-TM 8 CUS - Marker for terminal blocks

0824597

<https://www.phoenixcontact.com/no/products/0824597>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 8.2 mm, Number of individual labels: 56, text field height: 10.5 mm, text field width: 7.6 mm

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## UCT-TM 8 - Marker for terminal blocks

0828740

<https://www.phoenixcontact.com/no/products/0828740>



Marker for terminal blocks, Sheet, white, unmarked, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME 2.0, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, TOPMARK NEO, TOPMARK LASER, mounting type: latching, for terminal block width: 8.2 mm, Number of individual labels: 42, text field height: 10.5 mm, text field width: 7.6 mm

# TB 6 I - Feed-through terminal block

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## UCT-TM 8 CUS - Marker for terminal blocks

0829616

<https://www.phoenixcontact.com/no/products/0829616>



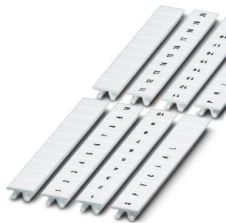
Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 8.2 mm, Number of individual labels: 42, text field height: 10.5 mm, text field width: 7.6 mm

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## ZB 8,LGS:FORTL.ZAHLEN - Zack marker strip

1052015

<https://www.phoenixcontact.com/no/products/1052015>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: latching, for terminal block width: 8.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 8.15 mm

# TB 6 I - Feed-through terminal block

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## ZB 8,QR:FORTL.ZAHLEN - Zack marker strip

1052028

<https://www.phoenixcontact.com/no/products/1052028>



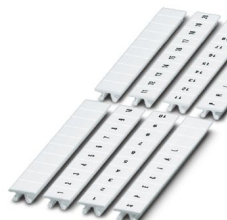
Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: latching, for terminal block width: 8.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 8.15 mm

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## ZB 8,LGS:L1-N,PE - Marker for terminal blocks

1052413

<https://www.phoenixcontact.com/no/products/1052413>



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: latching, for terminal block width: 8.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 8.15 mm

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## SZS 1,0X4,0 VDE - Screwdriver

1205066

<https://www.phoenixcontact.com/no/products/1205066>



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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