

## Mini feed-through terminal block - MBK 6/E - 0552024

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Mini feed-through terminal block, Connection method: Screw connection, Cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, Width: 8.2 mm, Color: gray, Mounting type: NS 15

### Why buy this product

- ✔ Separating disks, partition plates, and test sockets complete the range of accessories
- ✔ 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



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 STK   |
| Minimum order quantity               | 50 STK  |
| GTIN                                 | <br>4 017918 002893 |
| GTIN                                 | 4017918002893   |
| Weight per Piece (excluding packing) | 13.850 g  |
| Custom tariff number                 | 85369010  |
| Country of origin                    | Germany   |

### Technical data

#### General

|                       |                   |
|-----------------------|-------------------|
| Number of levels      | 1                 |
| Number of connections | 2                 |
| Potentials            | 1                 |
| Nominal cross section | 6 mm <sup>2</sup> |

# Mini feed-through terminal block - MBK 6/E - 0552024

## Technical data

### General

|  |  |
|--|--|
| Color                                  | gray   |
| Insulating material                    | PA   |
| Flammability rating according to UL 94 | V2   |
| Rated surge voltage                    | 6 kV   |
| Degree of pollution                    | 3  |
| Overvoltage category                   | III  |
| Insulating material group              | I  |
| Maximum load current                   | 57 A (with 10 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>         | 41 A   |
| Nominal voltage U <sub>N</sub>         | 500 V  |
| Open side panel                        | Yes  |

### Dimensions

|                 |        |
|-----------------|--------|
| Width           | 8.2 mm |
| End cover width | 1.5 mm |
| Length          | 35 mm  |
| Height NS 15    | 36 mm  |

### Connection data

|  |                      |
|--|----------------------|
| Connection method  | Screw connection     |
| Connection in acc. with standard   | IEC 60947-7-1        |
| Conductor cross section solid min.   | 0.5 mm <sup>2</sup>  |
| Conductor cross section solid max.   | 10 mm <sup>2</sup>   |
| Conductor cross section AWG min.   | 20                   |
| Conductor cross section AWG max.   | 8                    |
| Conductor cross section flexible min.                                      | 0.5 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                      | 6 mm <sup>2</sup>    |
| Min. AWG conductor cross section, flexible                                 | 20                   |
| Max. AWG conductor cross section, flexible                                 | 10                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 6 mm <sup>2</sup>    |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 6 mm <sup>2</sup>    |
| Cross section with insertion bridge, solid max.                            | 6 mm <sup>2</sup>    |
| Cross section with insertion bridge, stranded max.                         | 4 mm <sup>2</sup>    |
| 2 conductors with same cross section, solid min.                           | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.                           | 2.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.                        | 0.5 mm <sup>2</sup>  |

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## Technical data

### Connection data

|   |                     |
|---|---------------------|
| 2 conductors with same cross section, stranded max.                                     | 2.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 2.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 2.5 mm <sup>2</sup> |
| Cross section with insertion bridge, solid max.   | 6 mm <sup>2</sup>   |
| Cross section with insertion bridge, stranded max.                                      | 4 mm <sup>2</sup>   |
| Connection in acc. with standard  | IEC/EN 60079-7      |
| Conductor cross section solid min.  | 0.5 mm <sup>2</sup> |
| Conductor cross section solid max.  | 10 mm <sup>2</sup>  |
| Conductor cross section AWG min.  | 20                  |
| Conductor cross section AWG max.  | 8                   |
| Conductor cross section flexible min.   | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max.   | 6 mm <sup>2</sup>   |
| Stripping length  | 10 mm               |
| Internal cylindrical gage   | A5                  |
| Screw thread  | M4                  |
| Tightening torque, min  | 1.5 Nm              |
| Tightening torque max   | 1.8 Nm              |

### Standards and Regulations

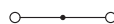
|  |               |
|--|---------------|
| Connection in acc. with standard       | CSA           |
|  | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V2            |

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

Circuit diagram



# Mini feed-through terminal block - MBK 6/E - 0552024

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141123 |
| eCl@ss 4.1 | 27141123 |
| eCl@ss 5.0 | 27141120 |
| eCl@ss 5.1 | 27141120 |
| eCl@ss 6.0 | 27141120 |
| eCl@ss 7.0 | 27141120 |
| eCl@ss 8.0 | 27141120 |
| eCl@ss 9.0 | 27141120 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000897 |
| ETIM 6.0 | EC000897 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |

## Approvals

### Approvals

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#### Approvals

CSA / UL Recognized / cUL Recognized / PRS / EAC / EAC / cULus Recognized

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#### Ex Approvals


IECEX / ATEX / EAC Ex


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### Approval details


# Mini feed-through terminal block - MBK 6/E - 0552024


## Approvals

|                            |   |   |       |
|----------------------------|---|---|-------|
| CSA                        |  | <a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a> | 13631 |
|                            |   |   |       |
| mm <sup>2</sup> /AWG/kcmil | 26-8  |   |       |
| Nominal current IN         | 50 A  |   |       |
| Nominal voltage UN         | 300 V   |   |       |

|                            |   |   |              |
|----------------------------|---|---|--------------|
| UL Recognized              |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                            | B   | C   | D            |
| mm <sup>2</sup> /AWG/kcmil | 26-8  | 26-8  | 26-8         |
| Nominal current IN         | 50 A  | 50 A  | 5 A          |
| Nominal voltage UN         | 300 V   | 300 V   | 600 V        |

|                            |   |   |              |
|----------------------------|---|---|--------------|
| cUL Recognized             |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                            | B   | C   | D            |
| mm <sup>2</sup> /AWG/kcmil | 26-8  | 26-8  | 26-8         |
| Nominal current IN         | 50 A  | 50 A  | 5 A          |
| Nominal voltage UN         | 300 V   | 300 V   | 600 V        |

|     |   |   |                   |
|-----|---|---|-------------------|
| PRS |  | <a href="http://www.prs.pl/">http://www.prs.pl/</a> | TE/1824/880590/09 |
|-----|---|---|-------------------|

|     |   |               |
|-----|---|---------------|
| EAC |  | EAC-Zulassung |
|-----|---|---------------|

|     |   |                     |
|-----|---|---------------------|
| EAC |  | 7500651.22.01.00246 |
|-----|---|---------------------|

## Mini feed-through terminal block - MBK 6/E - 0552024

### Approvals

cULus Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

### Accessories

#### Accessories

##### DIN rail

DIN rail, unperforated - NS 15 UNPERF 2000MM - 1401695



DIN rail, material: Steel, unperforated, height 5.5 mm, width 15 mm, length: 2 m

DIN rail perforated - NS 15 PERF 2000MM - 1401682



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 5.5 mm, width 15 mm, length: 2000 mm

DIN rail perforated - NS 15 AL PERF 2000MM - 1401763



DIN rail, material: Aluminum, perforated, height 5.5 mm, width 15 mm, length: 2 m

DIN rail perforated - NS 15 WH PERF 2000MM - 1204096



DIN rail, material: steel, perforated, height 5.5 mm, width 15 mm, length: 2 m

##### End block

## Mini feed-through terminal block - MBK 6/E - 0552024

### Accessories

End clamp - E/MBK - 1401637



End clamp, width: 6.2 mm, color: gray

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End clamp - E/MK - 1421633



End clamp, width: 6.2 mm, color: gray

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End clamp - E/MK 1 - 1421659



End clamp width: 6 mm, color: gray

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### End cover

End cover - D-MBK 6/E - 1413049



End cover, Length: 35 mm, Width: 1.5 mm, Height: 30.1 mm, Color: gray

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### Insertion bridge

Insertion bridge - EB 2- 8 - 0202154



Insertion bridge, Pitch: 8 mm, Number of positions: 2, Color: gray

## Mini feed-through terminal block - MBK 6/E - 0552024

### Accessories

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Insertion bridge - EB 3- 8 - 0202141



Insertion bridge, Pitch: 8 mm, Number of positions: 3, Color: gray

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Insertion bridge - EB 10- 8 - 0202138



Insertion bridge, Pitch: 8 mm, Number of positions: 10, Color: gray

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Insertion bridge - EB 4- 8 - 0202142



Insertion bridge, Pitch: 8 mm, Number of positions: 4, Color: gray

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Insertion bridge - EB 1/3/5/7-8 - 3072340



Insertion bridge, Pitch: 16.4 mm, Length: 24 mm, Width: 55.4 mm, Number of positions: 4, Pin assignment: 1, 3, 5, 7, Color: gray

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Insertion bridge - EB 1/3/5-8 - 3072341



Insertion bridge, Pitch: 16.4 mm, Length: 24 mm, Width: 39 mm, Number of positions: 3, Pin assignment: 1,3,5, Color: gray

---

Insulating sleeve



## Mini feed-through terminal block - MBK 6/E - 0552024

### Accessories

Bridge bar isolator - IS-K 10 - 1303337



Bridge bar isolator, Color: gray

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### Labeled terminal marker

Zack marker strip - ZB 8 CUS - 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, Lettering field: 10.5 x 8.15 mm

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Marker for terminal blocks - UC-TM 8 CUS - 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, Lettering field: 7.6 x 10.5 mm

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Marker for terminal blocks - UCT-TM 8 CUS - 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, Lettering field: 7.6 x 10.5 mm

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Zack marker strip - ZB 8,LGS:FORTL.ZAHLEN - 1052015



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

## Mini feed-through terminal block - MBK 6/E - 0552024

### Accessories

Zack marker strip - ZB 8,QR:FORTL.ZAHLEN - 1052028



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

Marker for terminal blocks - ZB 8,LGS:L1-N,PE - 1052413



Marker for terminal blocks, Strip, white, labeled, can be labeled with: Plotter, Horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

### Partition plate

Separating plate - TS-KK 3 - 2770215



Separating plate, Length: 14 mm, Width: 0 mm, Height: 16 mm, Color: gray

Partition plate - ATP-MBK - 1413227



Partition plate, Length: 42.5 mm, Width: 2.5 mm, Height: 30.5 mm, Color: gray

### Screw bridge

Jumper - ISSBI 10- 8 - 0301534



Jumper, Pitch: 8 mm, Number of positions: 10, Color: silver

## Mini feed-through terminal block - MBK 6/E - 0552024

### Accessories

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Fixed bridge - FBI 2- 8 - 0200020



Fixed bridge, Pitch: 8 mm, Number of positions: 2, Color: silver

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Fixed bridge - FBI 4- 8 - 0200046



Fixed bridge, Pitch: 8 mm, Number of positions: 4, Color: silver

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Fixed bridge - FB 10- 8-EX - 3003185



Fixed bridge, Pitch: 8 mm, Number of positions: 10, Color: silver

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Fixed bridge - FB 2- 8-EX - 3029224



Fixed bridge, Pitch: 8 mm, Number of positions: 2, Color: silver

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Fixed bridge - FBI 10- 8 - 0203263



Fixed bridge, Pitch: 8 mm, Number of positions: 10, Color: silver

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## Mini feed-through terminal block - MBK 6/E - 0552024

### Accessories

Fixed bridge - FB 4- 8 - 0202183



Fixed bridge, Number of positions: 4, Color: silver

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Fixed bridge - FB 10- 8 - 0202170



Fixed bridge, Pitch: 8 mm, Number of positions: 10, Color: silver

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Fixed bridge - FB 3- 8 - 0202167



Fixed bridge, Pitch: 8 mm, Number of positions: 3, Color: silver

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Fixed bridge - FBI 3- 8 - 0200059



Fixed bridge, Pitch: 8 mm, Number of positions: 3, Color: silver

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### Screwdriver tools

Screwdriver - SZS 1,0X4,0 VDE - 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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## Mini feed-through terminal block - MBK 6/E - 0552024

### Accessories

#### Short-circuit connector

Short-circuit connector - KSS 8 - 0311540



Short-circuit connector, Pitch: 8 mm, Number of positions: 2, Color: black

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#### Switching jumper

Switching jumper - SBRN 2-9 - 1415238



Switching bridge, 2-pos.

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Switching jumper - SB 2- 8/13 - 0202235



Switching jumper, Pitch: 13 mm, Number of positions: 2, Color: silver

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#### Terminal marking

Marker card - SBS 8:UNBEDRUCKT - 1007235



Marker card, Card, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, Snap into flat marker groove, for terminal block width: 8.2 mm, Lettering field: 6 x 8.1 mm

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## Mini feed-through terminal block - MBK 6/E - 0552024

### Accessories

Zack marker strip - ZB 8:UNBEDRUCKT - 1052002



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

Marker for terminal blocks - UC-TM 8 - 0818072



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, THERMOMARK CARD, THERMOMARK PRIME, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

Marker for terminal blocks - UCT-TM 8 - 0828740



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, THERMOMARK PRIME, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

### Test socket

Female test connector - PSBJ 4/15/6 FARBLOS - 0303419



Female test connector, Color: transparent

Female test connector - PSBJ 4/15/6 WH - 0303312



Female test connector, Color: white

## Mini feed-through terminal block - MBK 6/E - 0552024

### Accessories

Female test connector - PSBJ 4/15/6 RD - 0303325



Female test connector, Color: red

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Female test connector - PSBJ 4/15/6 BU - 0303354



Female test connector, Color: blue

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Female test connector - PSBJ 4/15/6 YE - 0303367



Female test connector, Color: yellow

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Female test connector - PSBJ 4/15/6 GN - 0303370



Female test connector, Color: green

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Female test connector - PSBJ 4/15/6 VT - 0303383



Female test connector, Color: violet

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## Mini feed-through terminal block - MBK 6/E - 0552024

### Accessories

Female test connector - PSBJ 4/15/6 GY - 0303396



Female test connector, Color: gray

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Female test connector - PSBJ 4/15/6 BK - 0303406



Female test connector, Color: black

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Female test connector - PSB 4/7/6 - 0303299



Female test connector, Color: silver

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Warning label printed

Warning label - WS 5- 8 - 1004416



Warning plate, with 2 plastic screws, across 5 terminal blocks, pitch 8 mm

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Warning label - WS 4- 8 - 1004212



Warning plate, with 2 plastic screws, across 4 terminal blocks, pitch 8 mm

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## Mini feed-through terminal block - MBK 6/E - 0552024

### Accessories

Warning label - WS 3- 8 - 1004128

Warning plate, with 2 plastic screws, across 3 terminal blocks, pitch 8 mm



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