The new High Voltage Generation of high current feed-through terminal blocks is specially designed for the requirements of drive technology and power electronics.

In addition to the already familiar simple assembly, the outstanding feature of these terminal blocks is a high nominal voltage of 1000 V. For the conductor cross section range up to 10 mm$^2$, there are the horizontal feed-through terminal blocks, HDFK 10-HV and the vertical version, HDFKV 10-HV.

The HDFKV 10-TWIN-HV with a conductor connection on both sides is used to loop through intermediate circuit voltages.

In addition to this, the HV range is rounded off by the molded variant.

The HDFK...-VP-HV terminal blocks are specially designed for the requirements of potted devices, such as filter modules, for example. They are an ideal supplement to the HDFK range for the cross section range of up to 10 mm$^2$.

The external parts of the molded high current feed-through terminal blocks is identical to those of the standard HV versions.

On the inside of the device, however, there is a sealing plate as well as a sponge rubber seal that prevents the molding compound from leaking out. The connection here is soldered.
# Technical data

## Feed-through terminal block, for 1 - 4 mm thick housing panels, with internal and external screw connection

1) **Insertion bridge**, fully insul.,
2) **Screwdriver**, for actuating the tension spring
3) **Zack strip**, 10-section, white

### Technical data in accordance with IEC/ DIN VDE

- Max. cross section with insertion bridge (solid/stranded) [mm²]:
  - Solid: 10 / 10
  - Stranded: 6 / 3
- Surge voltage category / insulation material group:
  - Surge: III / I

### Connection capacity

- Stranded with ferrule without / with plastic sleeve [mm²]: 0.5 - 10 / 0.5 - 10
- Multi-conductor connection (2 cond. with same cross section) [mm²]:
  - Solid / Stranded: 0.5 - 4 / 0.5 - 4
  - Stranded with ferrule without plastic sleeve: 0.5 - 2.5
  - Stranded with TWIN ferrule with plastic sleeve: 0.5 - 6
- Stripping length [mm]: 11
- Internal cylindrical gauge (IEC 60 947-1) B 6
- Terminal sleeve: Thread / torque – / [Nm]: M 4 / 1.5 - 1.8
- Insulating material PA
- Inflammability class in acc. with UL 94 V0
- Approval data (UL and CSA/CUL) Nominal voltage / current / conductor sizes UL [V] / [A] / AWG:
  - 600 / 65 / 24 - 6
  - CSA/CUL [V] / [A] / AWG:
  - 600 / 65 / 22 - 6

1) Finger-safe protection is not guaranteed when using the insertion bridge externally.

### Note:

With the HDFK and HDFKV, the terminal space must be completely open when joining both terminal block halves. The HDFK 10-HV can also be connected if turned by 180°.
**High Current Feed-Through Terminal Blocks**

**HDFKV 10-HV**

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### Technical data

<table>
<thead>
<tr>
<th>Type</th>
<th>Order No.</th>
<th>Pos. Pkt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDFKV 10-HV</td>
<td>07 17 23 8</td>
<td>50</td>
</tr>
<tr>
<td>EB 2-10</td>
<td>02 03 15 3</td>
<td>100</td>
</tr>
<tr>
<td>EB 3-10</td>
<td>02 03 32 8</td>
<td>10</td>
</tr>
<tr>
<td>EB 10-10</td>
<td>02 03 13 7</td>
<td>10</td>
</tr>
<tr>
<td>SZS 1,0 x 4,0</td>
<td>12 05 06 6</td>
<td>10</td>
</tr>
<tr>
<td>ZB 10:UNPRINTED</td>
<td>10 53 00 1</td>
<td>10</td>
</tr>
</tbody>
</table>

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### Dimensions

Technical data in accordance with IEC/DIN VDE

- **Max. cross section with insertion bridge (solid/stranded) [mm²]**
- **Halted surge voltage / contamination class [kV] / –**
- **Surge voltage category / insulation material group – / III / I**

### Connection capacity

- **Stranded with ferrule without / with plastic sleeve [mm²]**
- **Multi-conductor connection (2 cond. with same cross section)**
  - **Solid / Stranded [mm²]**
  - **Stranded with ferrule without plastic sleeve [mm²]**
  - **Stranded with TWIN ferrule with plastic sleeve [mm²]**
- **Stripping length [mm]**
- **Internal cylindrical gauge (IEC 60 947-1)**
- **Terminal sleeve: Thread / torque – / [Nm]**
- **Insulating material**
- **Inflammability class in acc. with UL 94**
- **Approval data (UL and CSA/CUL)**
  - **Nominal voltage / current / conductor sizes UL/CUL: [V] / [A] / AWG**

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1) Finger-safe protection is not guaranteed when using the insertion bridge externally.

**Note:**

With the HDFK and HDFKV, the terminal space must be completely open when joining both terminal block halves.
High Current
Feed-Through Terminal Blocks
HDFKV 10-TWIN-HV

Technical data

Technical data in accordance with IEC/ DIN VDE
Max. cross section with insertion bridge (solid/stranded) [mm²]
Rated surge voltage / contamination class [kV] / – 6 / 3
Surge voltage category / insulation material group – III / I

Connection capacity
Stranded with ferrule without / with plastic sleeve [mm²]
Multi-conductor connection (2 cond. with same cross section)
Solid / Stranded [mm²]
Stranded with ferrule without plastic sleeve [mm²]
Stranded with TWIN ferrule with plastic sleeve [mm²]
Stripping length [mm]

Internal cylindrical gauge (IEC 60 947-1)
Terminal sleeve: Thread / torque – / [Nm]
Insulating material
Inflammability class in acc. with UL 94

Approval data (UL and CSA/CUL)
Nominal voltage / current / conductor sizes UL/CUL / [V] / [A] / AWG

Dimensions

0.5 / 10 0.5 / 10

0.5 - 10 / 0.5 - 10

0.5 - 4 / 0.5 - 4

0.5 - 2.5

0.5 - 6

11

B 6

M 4 / 1.5 - 1.8

PA

V0

600 / 65 / 24 - 6

1) Finger-safe protection is not guaranteed when using the insertion bridge externally.

Note:
With the HDFK and HDFKV, the terminal space must be completely open when joining both terminal block halves.
High Current
Feed-Through Terminal Blocks
HDFK 10-VP-HV

Technical data

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Dimensions

Technical data in accordance with IEC/ DIN VDE
Max. cross section with insertion bridge (solid/stranded) [mm²]
Halted surge voltage / contamination class [kV] / –
Surge voltage category / insulation material group – / – III / I
Connection capacity
Stranded with ferrule without / with plastic sleeve [mm²]
Multi-conductor connection (2 cond. with same cross section) [mm²]
Stranded with ferrule without plastic sleeve [mm²]
Stranded with TWIN ferrule with plastic sleeve [mm²]
Stripping length [mm]
Internal cylindrical gauge (IEC 60 947-1) B 6
Terminal sleeve: Thread / torque – / [Nm]
Insulating material PA
Inflammability class in acc. with UL 94 V0

*) Finger-safe protection is not guaranteed when using the insertion bridge externally.
High Current
Feed-Through Terminal Blocks
HDFKV 10-VP-HV

Technical data

Molded Feed-through terminal block, for 1 - 4 mm thick housing panels, with external screw connection, with solder connection and sealing plate inside

(1) Insertion bridge, fully insulated, 2-pos.
fully insulated, 3-pos.
divisible, fully insulated, 10-pos.

(2) Screwdriver, for actuating the tension spring

(3) Zack strip, 10-section, white

Dimensions

Technical data in accordance with IEC/ DIN VDE
Max. cross section with insertion bridge (solid/stranded) [mm²]
Rated surge voltage / contamination class [kV] / –
Surge voltage category / insulation material group – / III / I
Connection capacity
Stranded with ferrule without / with plastic sleeve [mm²]
Multi-conductor connection (2 cond. with same cross section)
Solid / Stranded [mm²]
Stranded with ferrule without plastic sleeve [mm²]
Stranded with Twin ferrule with plastic sleeve [mm²]
Stripping length [mm]
Internal cylindrical gauge (IEC 60 947-1)
Terminal sleeve: Thread / torque – / [Nm]
Insulating material
Inflammability class in acc. with UL 94
Approval data (UL and CSA/CUL)
Nominal voltage / current / conductor sizes UL/CUL: [V] / [A] / AWG

1) Finger-safe protection is not guaranteed when using the insertion bridge externally.