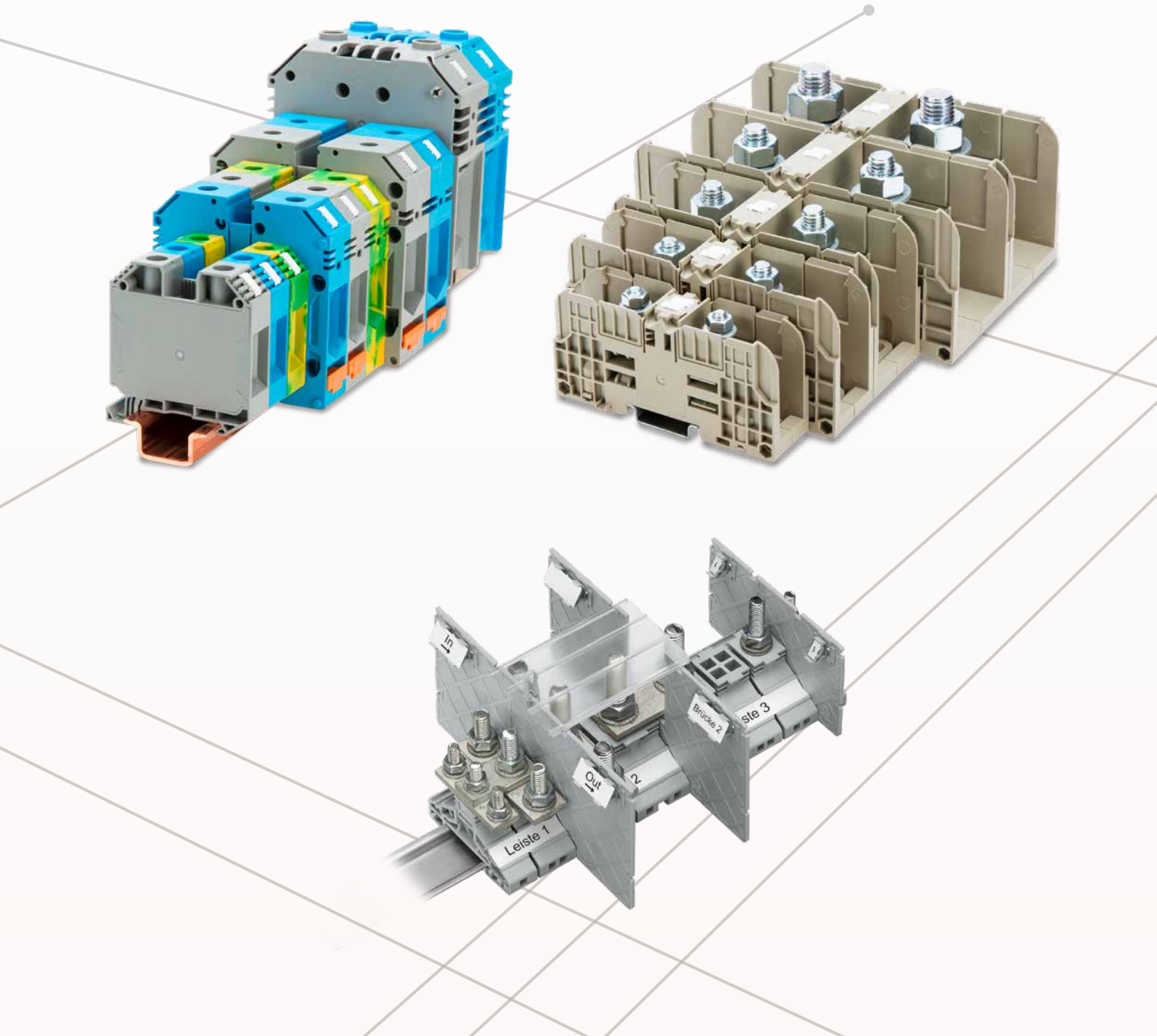
# Rail-Mount Terminal Blocks with Screw and Stud Connection

Supplementary Catalog to Full Line Catalog, Volume 1 – Edition 2021



**The new items in this catalog supplement products found in the following full line catalog:**

Volume 1

Rail-Mount Terminal Block Systems

# WAGO Rail-Mount Terminal Blocks with Screw and Stud Connection

# RAIL-MOUNT TERMINAL BLOCKS

## Screw Connection; 883 Series

### Operating Slot

Opening the clamping unit via
- Slot screwdriver for 35 mm²
- T-wrench for 70 mm², 120 mm² and 240 mm²

### Jumper Slot

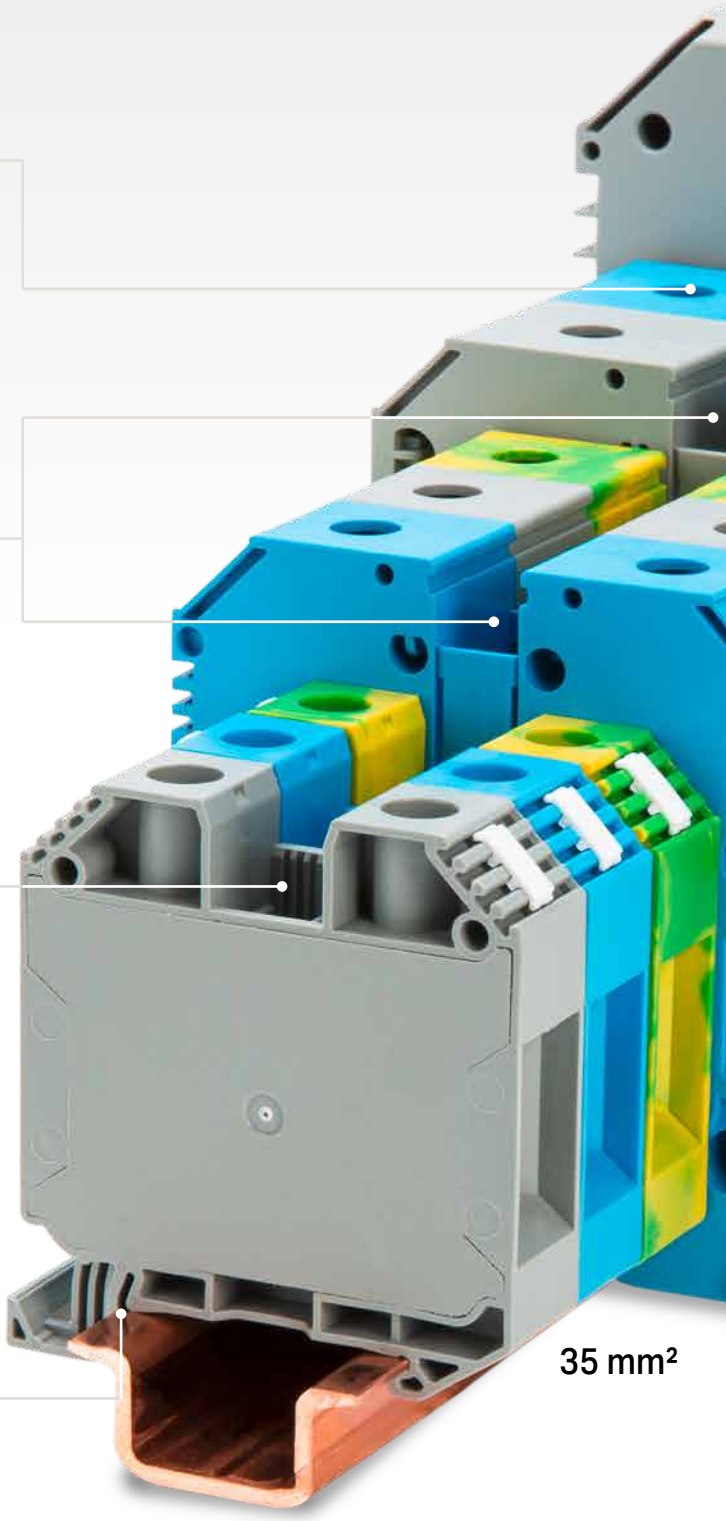
- Single jumper slot for 70 mm² and 120 mm²

### Jumper Slot

- Dual jumper slot for 35 mm²

### Snap-In Mounting Foot for DIN-35 Rails

- Snapping on one side for 35 mm² and 240 mm²
- Snapping on both sides for 70 mm² and 120 mm²




## Marking

- WMB
- WMB Inline
- Mini-WSB
- Mini-WSB Inline
- Marker carrier for marking strips

## Receptacle for Power Tap (on both sides)

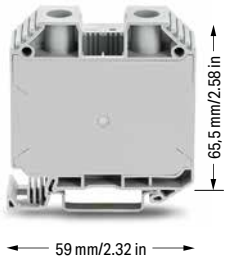
- For potential distribution via power taps

## Conductor Entry

- Easy conductor insertion without conductor preparation up to 240 mm²
- Accommodates jumpers for 240 mm² screw terminal blocks

# Through Terminal Block, Ground Conductor Terminal Block, Power Tap; with Screw Connection
## 883 Series

| Technical Data | |
|---|---|
| Nominal cross-section: 35 mm² | |
| 1.5 … 50 mm² "s+st+f-st" ❶ | 16 … 1/0 AWG |
| 1000 V/8 kV/3 ❸ | 600 V, 150 A |
| $I_N$ 125 A (150 A) | 600 V, 150 A |
| Terminal block width: 16.1 mm / 0.634 inch | |
| 18 mm / 0.71 inch | |
| Tightening torque: 3.2 … 3.7 Nm | |
| Screw thread: M6 | |
| Actuation type: Slot screwdriver; (6.5 x 1.2) mm blade | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |




2-conductor through terminal block

| Color | Item No. | PU |
|---|---|---|
| gray | 883-3501 | 20 |
| blue | 883-3504 | 20 |

**Item-Specific Accessories**

Jumper; insulated; yellow

| | | |
|---|---|---|
| 2-way | 883-3542 | 20 |

Protective warning marker; with high-voltage symbol

| | | |
|---|---|---|
| yellow | 883-3586 | 20 |
| white | 883-3588 | 20 |

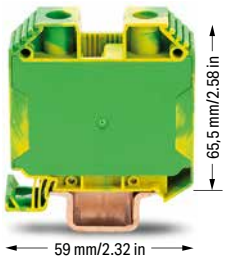
Screwless end stop; for DIN-35 rail; 10 mm wide

| | | |
|---|---|---|
| gray | 249-117 | 50 (25) |

Screwless end stop; for DIN-35 rail; 14 mm wide

| | | |
|---|---|---|
| gray | 249-197 | 10 |

| Technical Data | |
|---|---|
| Nominal cross-section: 35 mm² | |
| 1.5 … 50 mm² "s+st+f-st" ❶ | 16 … 1/0 AWG |
| Terminal block width: 16.1 mm / 0.634 inch | |
| 18 mm / 0.71 inch | |
| Tightening torque: 3.2 … 3.7 Nm | |
| Screw thread: M6 | |
| Actuation type: Slot screwdriver; (6.5 x 1.2) mm blade | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |




2-conductor ground terminal block; only suitable for DIN 35 x 15 rail; 2.3 mm thick; copper

| Color | Item No. | PU |
|---|---|---|
| green-yellow | 883-3507 | 20 |

**Item-Specific Accessories**

Protective warning marker; with high-voltage symbol

| | | |
|---|---|---|
| yellow | 883-3586 | 20 |
| white | 883-3588 | 20 |

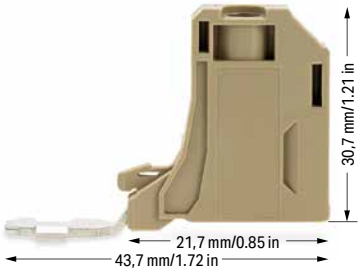
Screwless end stop; for DIN-35 rail; 10 mm wide

| | | |
|---|---|---|
| gray | 249-117 | 50 (25) |

Screwless end stop; for DIN-35 rail; 14 mm wide

| | | |
|---|---|---|
| gray | 249-197 | 10 |

| Technical Data | |
|---|---|
| Nominal cross-section: 6 mm² | |
| 0.2 … 10 mm² "s" ❷ | 22 … 8 AWG |
| 1000 V/6 kV/3 ❸ | |
| $I_N$ 41 A (57 A) | |
| Module width: 8.3 mm / 0.327 inch | |
| 10 mm / 0.39 inch | |
| Tightening torque: 1.2 … 2 Nm | |
| Screw thread: M3.5 | |
| Actuation type: Slot screwdriver; (4 x 0.8) mm blade | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |




Power tap

| Color | Item No. | PU |
|---|---|---|
| beige | 883-3530 | 50 |

❶ Conductor range: 1.5 … 50 mm² “s+st+f-st” and insulated ferrules: 1.5 … 35 mm²

❷ Conductor range: 0.2 … 10 mm²”s+f-st” and insulated ferrules: 0.2 … 6 mm²

❸ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree

Approvals and corresponding ratings, visit www.wago.com

**Mounting and removing through terminal blocks**
Mounting is performed by simply snapping the terminal block onto the DIN-rail. The fixed snap-in foot is put on first.
Removal is performed by pushing back the movable snap-in foot and simultaneously tilting it off the rail.

**Mounting and removing ground conductor terminal blocks**
Mounting is performed by simply snapping the terminal block onto the DIN-rail. The fixed snap-in foot is put on first. The DIN-rail is contacted via the ground foot.
Removal is performed by pushing back the movable snap-in foot and simultaneously tilting it off the rail.

**Conductor termination and clamping point actuation**
The stripped conductor is inserted into the clamping unit until it hits the backstop. By turning the screw to the right with a slotted screwdriver, the conductor is indirectly pressed against the current bar via the clamping bracket.

**Commoning**
The 2-way jumper is inserted into one of the two center jumper slots. The dual jumper slot allows an unlimited, multiple potential distribution. The jumpers are designed for the rated current of the screw terminal block.

**Commoning**
The jumper can be removed from the jumper slot using an operating tool or a slotted screwdriver via the slots recessed in the housing.

**Protective warning marker**
The warning covers marked with a lightning arrow (high voltage) are snapped onto the screw terminal block from above and close the actuation slot. This safeguard prevents actuation of the clamping point under voltage and guarantees protection against accidental contact.

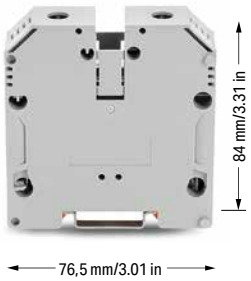
**Power tap**
The power tap is inserted into the conductor entry and pressed indirectly against the current bar via the clamping bracket when the clamping point is actuated.


Marking
The screw terminal blocks can be labeled quickly and easily with the WMB Inline marking system. The markers are inserted into the receptacles provided for this purpose. The 2009-198 Marker Carrier allows marking strips to be used.
For marking accessories, see pages 24 and 25.


Testing
Voltage measurements can be performed via the screw heads in the actuation slot (e.g., via 2-pole 206-707 Voltage Tester).

# Through Terminal Block, Ground Conductor Terminal Block, Power Tap; with Screw Connection
## 883 Series

| Technical Data | |
|---|---|
| Nominal cross-section: 70 mm² | |
| 10 … 95 mm² "s+st" ❶ | 6 … 3/0 AWG |
| 1000 V/8 kV/3 ❸ | 600 V, 205 A |
| $I_N$ 192 A (232 A) | 600 V, 205 A |
| Terminal block width: 20.5 mm / 0.807 inch | |
| 22 mm / 0.87 inch | |
| Tightening torque: 6 … 12 Nm | |
| Screw thread: M8 | |
| Actuation type: T-wrench; 6 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |




2-conductor through terminal block

| Color | Item No. | PU |
|---|---|---|
| gray | 883-7001 | 10 |
| blue | 883-7004 | 10 |

**Item-Specific Accessories**

Jumper bar; uninsulated

| | | |
|---|---|---|
| 2-way | 883-7042 | 10 |
| 3-way | 883-7043 | 10 |
| 4-way | 883-7044 | 10 |

Protective warning marker; with high-voltage symbol

| | | |
|---|---|---|
| yellow | 883-7086 | 10 |
| white | 883-7088 | 10 |

Insertion plate for flat cables

| | | |
|---|---|---|
| uninsulated | 883-7099 | 10 |

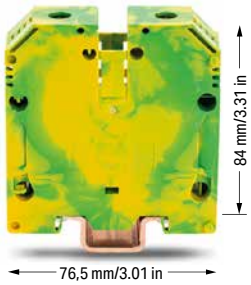
Screwless end stop; for DIN-35 rail; 10 mm wide

| | | |
|---|---|---|
| gray | 249-117 | 50 (25) |

Screwless end stop; for DIN-35 rail; 14 mm wide

| | | |
|---|---|---|
| gray | 249-197 | 10 |

| Technical Data | |
|---|---|
| Nominal cross-section: 70 mm² | |
| 10 … 95 mm² "s+st" ❶ | 6 … 3/0 AWG |
| Terminal block width: 20.5 mm / 0.807 inch | |
| 22 mm / 0.87 inch | |
| Tightening torque: 6 … 12 Nm | |
| Screw thread: M8 | |
| Actuation type: T-wrench; 6 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |




2-conductor ground terminal block; only suitable for DIN 35 x 15 rail; 2.3 mm thick; copper

| Color | Item No. | PU |
|---|---|---|
| green-yellow | 883-7007 | 10 |

**Item-Specific Accessories**

Protective warning marker; with high-voltage symbol

| | | |
|---|---|---|
| yellow | 883-7086 | 10 |
| white | 883-7088 | 10 |

Insertion plate for flat cables

| | | |
|---|---|---|
| uninsulated | 883-7099 | 10 |

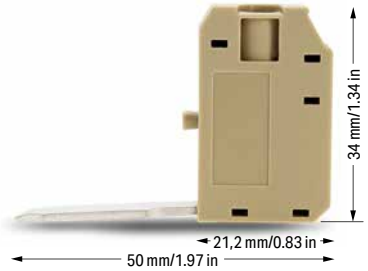
Screwless end stop; for DIN-35 rail; 10 mm wide

| | | |
|---|---|---|
| gray | 249-117 | 50 (25) |

Screwless end stop; for DIN-35 rail; 14 mm wide

| | | |
|---|---|---|
| gray | 249-197 | 10 |

| Technical Data | |
|---|---|
| Nominal cross-section: 10 mm² | |
| 0.2 … 10 mm² "s+st+f-st" ❷ | 22 … 8 AWG |
| 1000 V/6 kV/3 ❸ | |
| $I_N$ 57 A | |
| Module width: 10 mm / 0.39 inch | |
| 12 mm / 0.47 inch | |
| Tightening torque: 1.2 … 2 Nm | |
| Screw thread: M4 | |
| Actuation type: Slot screwdriver; (4 x 0.8) mm blade | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V2 | |
| Continuous operating temperature: -35 … +105 °C | |




Power tap

| Color | Item No. | PU |
|---|---|---|
| beige | 883-7030 | 10 |

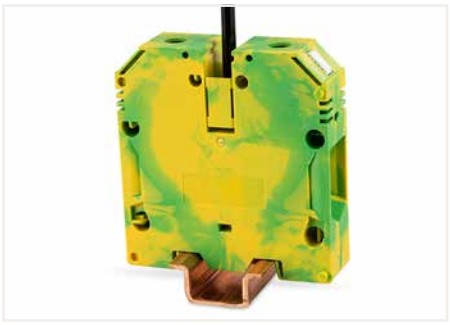
❶ Conductor range: 10 … 95 mm² “s+st”; 10 … 70 mm “f-st”;
Insulated ferrules: 10 … 70 mm²

❷ Conductor range: 0.2 … 10 mm² “s+st+f-st”;
Insulated ferrules: 0.2 … 10 mm²

❸ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree

Approvals and corresponding ratings, visit www.wago.com

**Mounting and removing through terminal blocks**
Mounting is performed by simply snapping the terminal block onto the DIN-rail. The pins in the housing ensure an increased mechanical stability in the terminal block assembly when the rail-mount terminal blocks are pushed together.
Removal is performed by pushing back one of the locking elements on both sides and simultaneously tilting it off the DIN-rail.



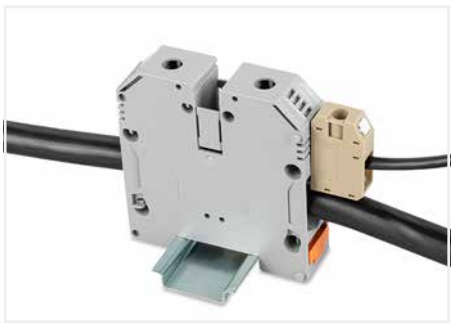
**Mounting and removing ground conductor terminal blocks**
Installation is performed by placing the ground conductor terminal block on the copper DIN-rail and then securing it by tightening the Allen screw in the jumper slot using a 6 mm T-wrench. The DIN-rail is contacted via the ground foot.
Removal is performed by loosening the Allen screw in the jumper slot and tilting it off the DIN-rail.

**Conductor termination and clamping point actuation**
The stripped conductor is inserted into the clamping unit until it hits the backstop. By turning the screw to the right with a 6 mm T-wrench, the conductor is indirectly pressed against the current bar via the clamping bracket.

**Commoning**
Step 1: Remove the inner partitions at the defined break points.

**Commoning**
Step 2: Insert the jumper into the jumper slot and tighten the screws with a slotted screwdriver. The jumpers are designed for the rated current of the screw terminal block.

**Protective warning marker**
The warning covers marked with a lightning arrow are snapped onto the screw terminal block from above and close the actuation slot. This prevents actuation of the clamping point under voltage and guarantees protection against accidental contact.



**Power tap**
The power tap is inserted into the slot above the conductor entry and pressed indirectly against the current bar via the clamping bracket when the clamping point is actuated.

**Insertion plate**
To connect flat cables, the insertion plates are mounted into the clamping bracket to compensate for the V-shaped geometry and provide a secure conductor connection.


Marking
The screw terminal blocks can be labeled quickly and easily with the WMB Inline marking system. The markers are inserted into the receptacles provided for this purpose. The 2009-198 Marker Carrier allows marking strips to be used.
For marking accessories, see pages 24 and 25.


Testing
Voltage measurements can be performed via the screw heads in the actuation slot (e.g., via 2-pole 206-707 Voltage Tester).

# Through Terminal Block, Power Tap; with Screw Connection
## 883 Series

| Technical Data | |
|---|---|
| Nominal cross-section: 120 mm² | |
| 16 … 150 mm² “s+st” ❶ | 4 … 4/0 AWG |
| 1000 V/8 kV/3 ❸ | 600 V, 228 A |
| $I_N$ 269 A (290 A) | 600 V, 228 A |
| Terminal block width: 27 mm / 1.063 inch | |
| 27 mm / 1.06 inch | |
| Tightening torque: 12 … 20 Nm | |
| Screw thread: M10 | |
| Actuation type: T-wrench; 6 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |

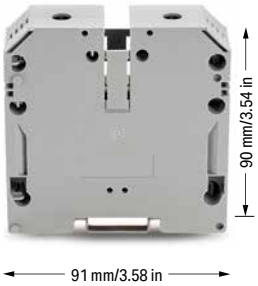
| Technical Data | |
|---|---|
| Nominal cross-section: 10 mm² | |
| 0.2 … 10 mm² “s+st+f-st” ❷ | 22 … 8 AWG |
| 1000 V/6 kV/3 ❸ | |
| $I_N$ 57 A | |
| Module width: 10 mm / 0.39 inch | |
| 12 mm / 0.47 inch | |
| Tightening torque: 1.2 … 2 Nm | |
| Screw thread: M4 | |
| Actuation type: Slot screwdriver; (4 x 0.8) mm blade | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V2 | |
| Continuous operating temperature: -35 … +105 °C | |

❶ Conductor range: 16 … 150 mm² “s+st”; 16 … 120 mm “f-st”;
Insulated ferrules: 16 … 95 mm²

❷ Conductor range: 0.2 … 10 mm² “s+st+f-st”;
Insulated ferrules: 0.2 … 10 mm²

❸ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree

Approvals and corresponding ratings, visit www.wago.com





| 2-conductor through terminal block | | |
|---|---|---|
| Color | Item No. | PU |
| gray | 883-1201 | 5 |
| blue | 883-1204 | 5 |

| Power tap | | |
|---|---|---|
| Color | Item No. | PU |
| beige | 883-1230 | 10 |

### Item-Specific Accessories

| Jumper bar; uninsulated | | | |
|---|---|---|---|
| | 2-way | 883-1242 | 10 |
| | 3-way | 883-1243 | 10 |
| | 4-way | 883-1244 | 10 |

| Protective warning marker; with high-voltage symbol | | | |
|---|---|---|---|
| | yellow | 883-1286 | 10 |
| | white | 883-1288 | 10 |

| Insertion plate for flat cables | | | |
|---|---|---|---|
| | uninsulated | 883-1299 | 10 |

| Screwless end stop; for DIN-35 rail; 10 mm wide | | | |
|---|---|---|---|
| | gray | 249-117 | 50 (25) |

| Screwless end stop; for DIN-35 rail; 14 mm wide | | | |
|---|---|---|---|
| | gray | 249-197 | 10 |

**Mounting and removing through terminal blocks**
Mounting is performed by simply snapping the terminal block onto the DIN-rail. The pins in the housing increase mechanical stability in the terminal block assembly when the rail-mount terminal blocks are pushed together. Removal is performed by pushing back one of the locking elements on both sides and simultaneously tilting it off the DIN-rail.

**Commoning**
Step 1: Remove the inner partitions at the defined break points (a cutting tool may be required to cut off the partitions).

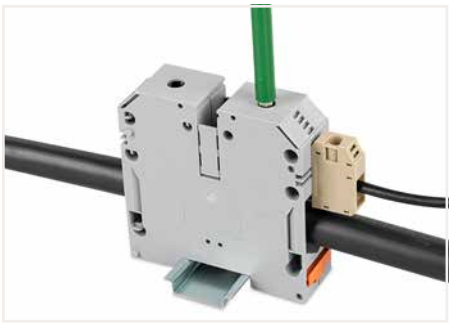
**Insertion plate**
To connect flat cables, the insertion plates are mounted into the clamping bracket to compensate for the V-shaped geometry and provide a secure conductor connection.

**Conductor termination and clamping point actuation**
The stripped conductor is inserted into the clamping unit until it hits the backstop. By turning the screw to the right with a 6 mm T-wrench, the conductor is indirectly pressed against the current bar via the clamping bracket.

**Commoning**
Step 2: Insert the jumper into the jumper slot and tighten the screws with a slotted screwdriver. The jumpers are designed for the rated current of the screw terminal block.

Marking
The screw terminal blocks can be labeled quickly and easily with the WMB Inline marking system. The markers are inserted into the receptacles provided for this purpose. The 2009-198 Marker Carrier allows marking strips to be used.
For marking accessories, see pages 24 and 25.

**Protective warning marker**
The warning covers marked with a lightning arrow are snapped onto the screw terminal block from above and close the actuation slot. This safeguard prevents actuation of the clamping point under voltage and guarantees protection against accidental contact.



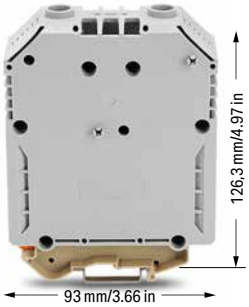
**Power tap**
The power tap is inserted into the slot above the conductor entry and pressed indirectly against the current bar via the clamping bracket when the clamping point is actuated.


Testing
Voltage measurements can be performed via the screw heads in the actuation slot (e.g., via 2-pole 206-707 Voltage Tester).

# Through Terminal Block, Power Tap; with Screw Connection
## 883 Series

| Technical Data | |
|---|---|
| Nominal cross-section: 240 mm² | |
| 70 … 240 mm² “s+st+f-st” ❶ | 2/0 AWG … 500 kcmil |
| 1000 V/8 kV/3 ❸ | 600 V, 370 A |
| $I_N$ 380 A | 600 V, 370 A |
| Terminal block width: 36 mm / 1.417 inch | |
| 38 mm / 1.5 inch | |
| Tightening torque: 10 … 20 Nm | |
| Screw thread: M10 | |
| Actuation type: T-wrench; 8 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V2 | |
| Continuous operating temperature: -35 … +105 °C | |

| Technical Data | |
|---|---|
| Nominal cross-section: 10 mm² | |
| 0.2 … 10 mm² “s+st+f-st” ❷ | 22 … 8 AWG |
| 1000 V/6 kV/3 ❸ | |
| $I_N$ 57 A | |
| Module width: 10 mm / 0.39 inch | |
| 12 mm / 0.47 inch | |
| Tightening torque: 1.2 … 2 Nm | |
| Screw thread: M4 | |
| Actuation type: Slot screwdriver; (4 x 0.8) mm blade | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V2 | |
| Continuous operating temperature: -35 … +105 °C | |





❶ Conductor range: 70 … 240 mm² “s+st+f-st”; Insulated ferrules: 70 … 185 mm²

❷ Conductor range: 0.2 … 10 mm² “s+st+f-st”; Insulated ferrules: 0.2 … 10 mm²

❸ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree

Approvals and corresponding ratings, visit www.wago.com

### 2-conductor through terminal block

| Color | Item No. | PU |
|---|---|---|
| gray | 883-2401 | 5 |
| blue | 883-2404 | 5 |

### Power tap

| Color | Item No. | PU |
|---|---|---|
| beige | 883-1230 | 10 |

### Item-Specific Accessories

#### Jumper; yellow

| | | |
|---|---|---|
| 2-way | 883-2442 | 5 |
| 3-way | 883-2443 | 5 |

#### Protective warning marker; with high-voltage symbol

| | | |
|---|---|---|
| yellow | 883-2486 | 20 |

#### Insertion plate for flat cables

| | | |
|---|---|---|
| uninsulated | 883-2499 | 10 |

#### Screwless end stop; for DIN-35 rail; 14 mm wide

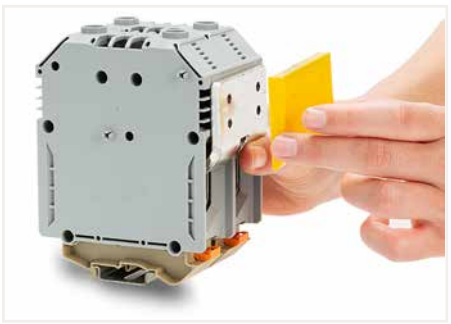
| | | |
|---|---|---|
| gray | 249-197 | 10 |

**Mounting and removing through terminal blocks**
Mounting is performed by simply snapping the terminal block onto the DIN-rail. The fixed snap-in foot is put on first.
Removal is performed by pushing back the movable snap-in foot and simultaneously tilting it off the rail.

**Commoning**
Step 1: Insert the 2- or 3-way jumper into the conductor entry to connect adjacent terminal blocks.

**Power tap**
The power tap is inserted into the slot above the conductor entry. The power tap is pressed indirectly against the current bar via the clamping bracket when the clamping point is actuated.

**Conductor termination and clamping point actuation**
The stripped conductor is inserted into the clamping unit until it hits the backstop. By turning the screw to the right with a 8 mm T-wrench, the conductor is indirectly pressed against the current bar via the clamping bracket.



**Commoning**
Step 2: Mount the yellow insulating cap and snap it to the housing to position the jumper in the clamping unit.

**Insertion plate**
To connect flat cables, the insertion plates are mounted into the clamping bracket to compensate for the V-shaped geometry and provide a secure conductor connection.

**Protective warning marker**
The warning covers marked with a lightning arrow are snapped onto the screw terminal block from above and close the actuation slot. This prevents actuation of the clamping point under voltage and guarantees protection against accidental contact.

**Commoning**
Step 3: By tightening the screw in the actuation slot, the jumper is secured in the conductor entry. If required, a conductor can also be inserted into the conductor entry and clamped together with the jumper.
A multiple potential distribution is possible due to the conductor entry on both sides. The jumpers are designed for the rated current of the screw terminal block.

Marking
The screw terminal blocks can be labeled quickly and easily with the WMB Inline marking system. The markers are inserted into the receptacles provided for this purpose. The 2009-198 Marker Carrier allows marking strips to be used.
For marking accessories, see pages 24 and 25.

Testing
Voltage measurements can be performed via the screw heads in the actuation slot (e.g., via 2-pole 206-707 Voltage Tester).

# STUD TERMINAL BLOCKS

## 884 Series

### Connection Stud

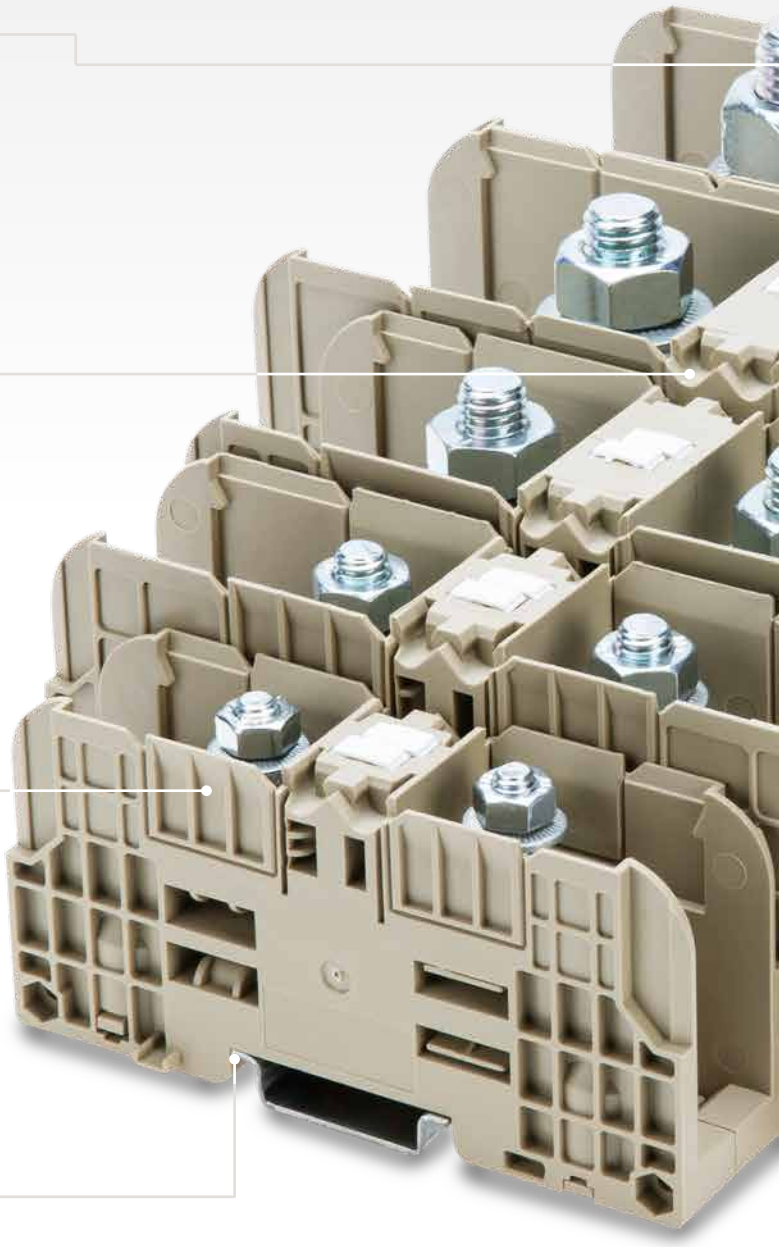
- Stud for mounting ring cable lugs

### Receptacle for Covers

- Covers guarantee a safe operation

### Commoning

- Both sides can be commoned with jumpers
- Remove the partitions before inserting the jumpers

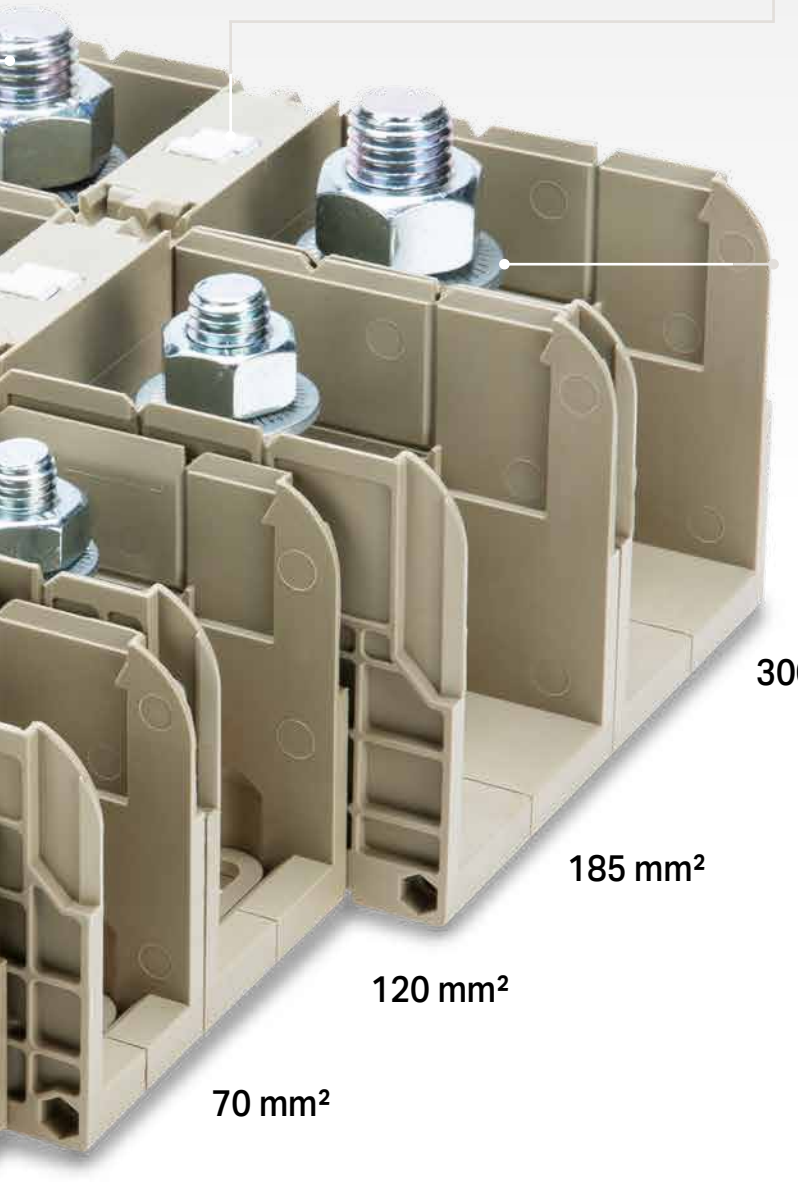


### Snap-In Mounting Foot for DIN-35 Rails

- Snap onto the DIN-rail on both sides

## Marking

- WMB
- WMB Inline
- Mini-WSB
- Mini-WSB Inline
- Marker carrier for marking strips




## Conductor Entry

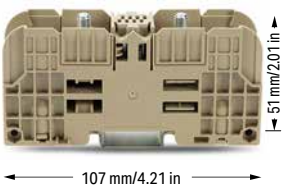
- Lateral conductor entry
- Top mounting of the ring cable lug

# Stud Terminal Block
## 884 Series

| Technical Data | |
|---|---|
| Nominal cross-section: 35 mm² | |
| 2.5 … 50 mm² ❶ | 14 … 1/0 AWG |
| 1000 V/8 kV/3 ❻ | 1000 V, 130 A |
| $I_N$ 125 A | 1000 V, 130 A |
| Terminal block width: 27 mm / 1.063 inch | |
| Tightening torque: 3 … 6 Nm | |
| Thread size: M6 | |
| Actuation type: Open-end, ring, socket wrench; 10 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |

| Technical Data | |
|---|---|
| Nominal cross-section: 70 mm² | |
| 2.5 … 95 mm² ❷ | 14 … 3/0 AWG |
| 1000 V/8 kV/3 ❻ | 1000 V, 175 A |
| $I_N$ 192 A (232 A) | 1000 V, 175 A |
| Terminal block width: 32 mm / 1.26 inch | |
| Tightening torque: 6 … 12 Nm | |
| Thread size: M8 | |
| Actuation type: Open-end, ring, socket wrench; 13 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |

| Technical Data 10 AWG … 250 kcmil | |
|---|---|
| Nominal cross-section: 120 mm² | |
| 6 … 120 mm² ❸ | 10 AWG … 250 kcmil |
| 1000 V/8 kV/3 ❻ | 1000 V, 225 (310) A |
| $I_N$ 269 A (290 A) | 1000 V, 310 A |
| Terminal block width: 42 mm / 1.654 inch | |
| Tightening torque: 10 … 20 Nm | |
| Thread size: M10 | |
| Actuation type: Open-end, ring, socket wrench; 17 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |






| Stud terminal block; with two M6 studs | | |
|---|---|---|
| Color | Item No. | PU |
| beige | 884-3500 | 10 |

| Stud terminal block; with two M8 studs | | |
|---|---|---|
| Color | Item No. | PU |
| beige | 884-7000 | 10 |

| Stud terminal block; with two M10 studs | | |
|---|---|---|
| Color | Item No. | PU |
| beige | 884-1200 | 5 |

| Item-Specific Accessories | | | |
|---|---|---|---|
| Jumper; for M6 studs; uninsulated | | | |
| | 2-way | 884-3542 | 10 |
| | 3-way | 884-3543 | 10 |

| Item-Specific Accessories | | | |
|---|---|---|---|
| Jumper; for M8 studs; uninsulated | | | |
| | 2-way | 884-7042 | 10 |
| | 3-way | 884-7043 | 10 |

| Item-Specific Accessories | | | |
|---|---|---|---|
| Jumper; for M10 studs; uninsulated | | | |
| | 2-way | 884-1242 | 10 |
| | 3-way | 884-1243 | 10 |

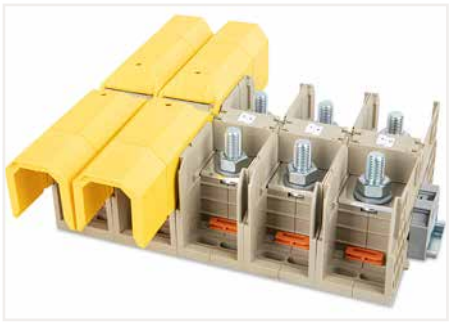
| Cover; for 35 mm² stud terminal blocks | | | |
|---|---|---|---|
| | beige | 884-3580 | 10 |
| | blue | 884-3584 | 10 |
| | yellow | 884-3586 | 10 |

| Cover; for 70 mm² stud terminal blocks | | | |
|---|---|---|---|
| | beige | 884-7080 | 10 |
| | blue | 884-7084 | 10 |
| | yellow | 884-7086 | 10 |

| Cover; for 120 mm² stud terminal blocks | | | |
|---|---|---|---|
| | beige | 884-1280 | 10 |
| | blue | 884-1284 | 10 |
| | yellow | 884-1286 | 10 |

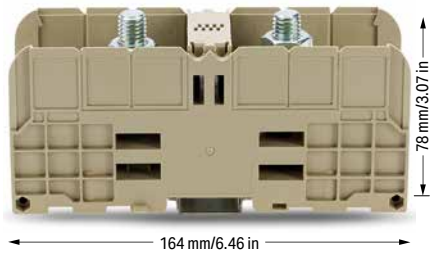
**Assembly and removal**
Mounting is performed by simply snapping the terminal block onto the DIN-rail. Locking devices are provided on both sides. Removal is performed by pushing back a locking device and simultaneously tilting it off the rail.
The slotted holes in the bottom of the housing allow direct screw mounting on suitable surfaces.

**Commoning**
Step 1: Remove the inner partitions next to the studs.
Step 2: Place the 2- or 3-way jumper on the studs to be connected.
Step 3: Tighten the hex flange nuts to the required torque.
Notice: The jumpers are positioned under the ring cable lug to be connected.
The jumpers are designed for the rated current of the respective stud terminal block.



**Cover**
The covers are snapped from the top into the provided locking mechanism of the stud terminal block. The covers can be shortened with a cutting tool. The covers can be mounted on one or both sides and ensure reliable protection against contact.

| Technical Data | |
|---|---|
| Nominal cross-section: 185 mm² | |
| 10 … 185 mm² ❹ | 8 AWG … 500 kcmil |
| 1000 V/8 kV/3 ❻ | 1000 V, 380 A |
| $I_N$ 353 A | 1000 V, 380 A |
| Terminal block width: 55 mm / 2.165 inch | |
| Tightening torque: 14 … 31 Nm | |
| Thread size: M12 | |
| Actuation type: Open-end, ring, socket wrench; 19 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |

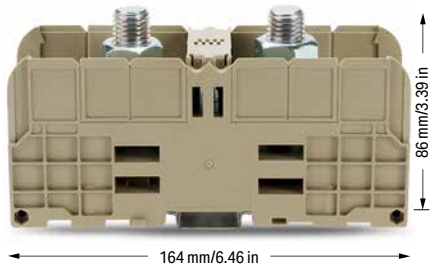



| Stud terminal block; with two M12 studs | | |
|---|---|---|
| Color | Item No. | PU |
| beige | 884-1800 | 5 |

| Item-Specific Accessories | | | |
|---|---|---|---|
| Jumper; for M12 studs; uninsulated | | | |
| | 2-way | 884-1842 | 10 |
| | 3-way | 884-1843 | 10 |

| Cover; for 185 mm² stud terminal blocks | | | |
|---|---|---|---|
| | beige | 884-3080 | 10 |
| | blue | 884-3084 | 10 |
| | yellow | 884-3086 | 10 |

| Technical Data | |
|---|---|
| Nominal cross-section: 300 mm² | |
| 25 … 300 mm² ❺ | 6 AWG … 600 kcmil |
| 1000 V/8 kV/3 ❻ | 1000 V, 420 (510) A |
| $I_N$ 520 A | 1000 V, 510 A |
| Terminal block width: 55 mm / 2.165 inch | |
| Tightening torque: 25 … 60 Nm | |
| Thread size: M16 | |
| Actuation type: Open-end, ring, socket wrench; 24 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |




| Stud terminal block; with two M16 studs | | |
|---|---|---|
| Color | Item No. | PU |
| beige | 884-3000 | 5 |

| Item-Specific Accessories | | | |
|---|---|---|---|
| Jumper; for M16 studs; uninsulated | | | |
| | 2-way | 884-3042 | 10 |
| | 3-way | 884-3043 | 10 |

| Cover; for 300 mm² stud terminal blocks | | | |
|---|---|---|---|
| | beige | 884-3080 | 10 |
| | blue | 884-3084 | 10 |
| | yellow | 884-3086 | 10 |

❶ Conductor cross-section
DIN 46234: 1 cable lug per side: 2.5 … 50 mm²
DIN 46235: 1 cable lug per side: 6 … 25 mm²

❷ Conductor cross-section
DIN 46234: 1 cable lug per side: 2.5 … 95 mm²
DIN 46235: 1 cable lug per side: 16 … 70 mm²

❸ Conductor cross-section
DIN 46234: 1 cable lug per side: 6 … 150 mm²
DIN 46234: 2 cable lugs per side: 6 … 120 mm²
DIN 46235: 1 cable lug per side: 16 … 150 mm²
DIN 46235: 2 cable lugs per side: 16 … 120 mm²

❹ Conductor cross-section
DIN 46234: 1 cable lug per side: 10 … 240 mm²
DIN 46234: 2 cable lugs per side: 10 … 185 mm²
DIN 46235: 1 cable lug per side: 25 … 240 mm²
DIN 46235: 2 cable lugs per side: 25 … 185 mm²

❺ Conductor cross-section
DIN 46234: 1 cable lug per side: 25 … 240 mm²
DIN 46234: 2 cable lugs per side: 50 … 240 mm²
DIN 46235: 1 cable lug per side: 50 … 300 mm²
DIN 46235: 2 cable lugs per side: 50 … 240 mm²

❻ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree

Please observe the application notes of the cable lug manufacturers regarding the strip length and the appropriate conductor cross sections.

Type of cable lugs per DIN 46234:
Cable lugs for solder-free connections
Ring type, without insulating sleeve, for copper conductors

Type of cable lugs per DIN 46235:
Cable lugs for compression connections
Cover plate type for copper conductors

Approvals and corresponding ratings, visit www.wago.com

**Testing**
Voltage measurements can be performed directly on the studs. Thanks to the provided test slots, voltage measurements are also possible with mounted warning covers.

**Marking**
The stud terminal blocks can be labeled quickly and easily with the WMB Inline marking system. The markers are inserted into the receptacles provided for this purpose. The 2009-198 Marker Carrier allows marking strips to be used.
For marking accessories, see pages 24 and 25.

**Connecting two cable lugs to a stud**
Up to two cable lugs can be connected to one stud. For this purpose, the cable lugs are placed back-to-back on the stud.
Then the hex flange nut is tightened with the required torque so that the lugs of the cable lugs press against each other and make secure contact with the current bar.

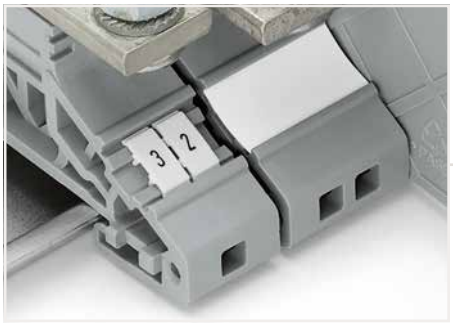
# Stud Terminal Blocks
## 885 Series
Description and Installation

Assembly options – just snap cover in at the required position.

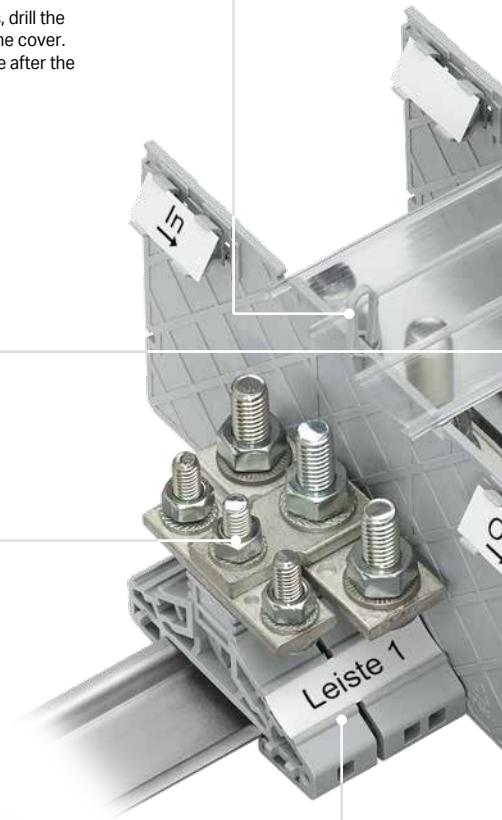
Touch guard cover – can be secured against slipping via clip. The hole must be drilled in the appropriate position (6 mm drilled hole diameter).
When mounting the cover to the outer positions, drill the hole for the clip between the marker slots into the cover. Insert the pins of the clip into the drilled hole one after the other (6 mm drilled hole diameter).

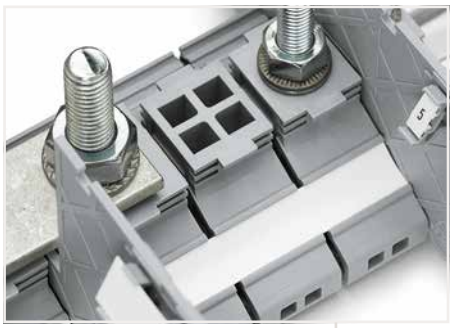
Fast and easy potential distribution using jumpers – 2-way jumper from M10 to M10 via separator

Step-down jumper from M8 to M6

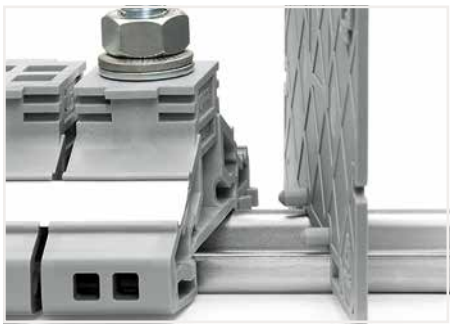



Terminal block marking – either with WMB marker or marking strips

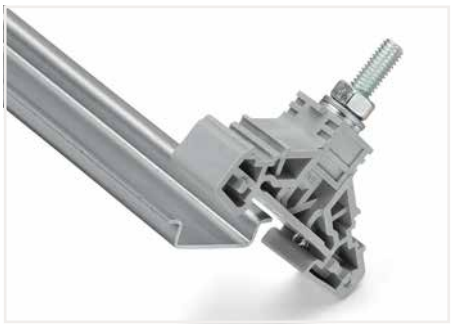


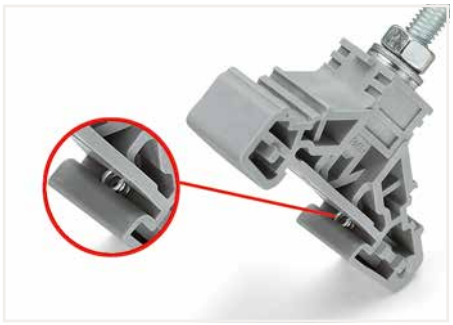


Empty housing as placeholder (M10)

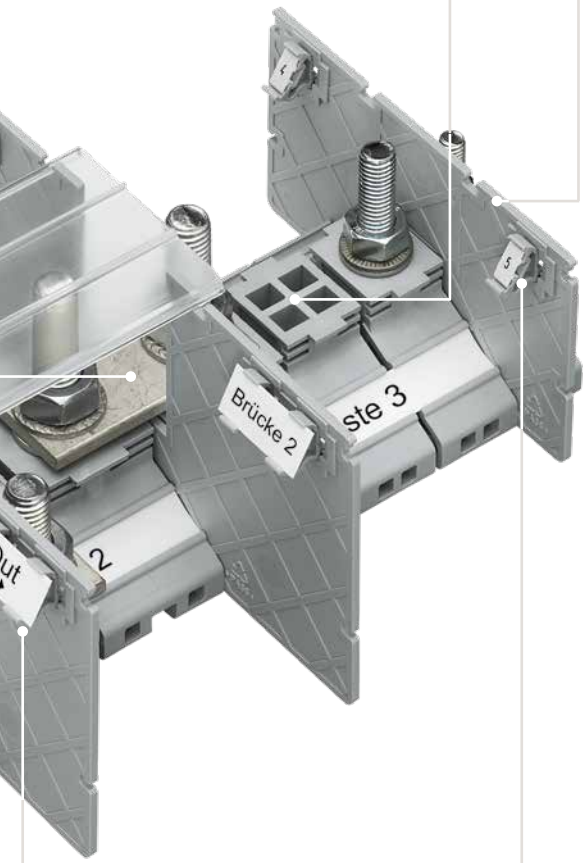


Securing a separator plate on a stud terminal block via guide pins.

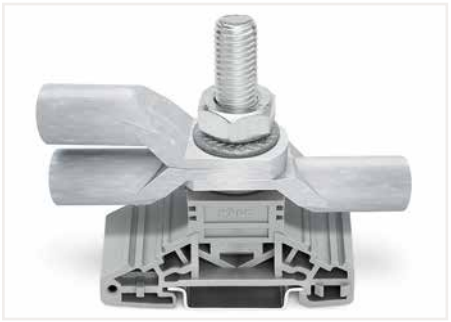




First, mount the terminal base over the edge for fitting onto the DIN-rail.



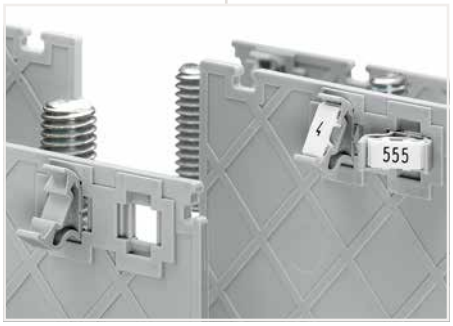

Then, slide the terminal side with the spring element toward the center of the rail and alternately press it up/ down.



Up to three cable lugs can be connected according to:

- DIN 46234
  Cable lugs for solder-free connections, ring type, without insulating sleeve, for copper conductors and
- DIN 46235
  Cable lugs for compression connections, cover plate type for copper conductors

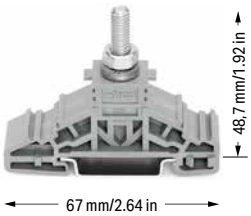
Install cable lugs back-to-back on the stud. Then, tighten to the required torque using a nut secured by a lock washer.




Group marking with marker carrier – either via WMB marker or marking strip

# Stud Terminal Block
## 885 Series

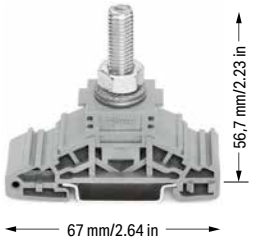
| Technical Data | |
|---|---|
| Nominal cross-section: 35 mm² | |
| 2.5 … 35 mm² ❶ | 14 … 1/0 AWG |
| 1000 V/8 kV/3 ❹ | 600 V, 115 A |
| $I_N$ 125 A | 600 V, 115 A |
| Terminal block width: 17.8 mm / 0.917 inch | |
| Tightening torque: 3 … 6 Nm | |
| Thread size: M6 | |
| Actuation type: Open-end, ring, socket wrench; 10 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |




| Stud terminal block; 1 stud, M6 | | |
|---|---|---|
| Color | Item No. | PU |
| gray | 885-106 | 25 |

| Item-Specific Accessories | | | |
|---|---|---|---|
| Separator plate; 2 mm thick; 102.3 mm wide | | | |
| | gray | 885-526 | 25 |
| Separator plate with jumper slot; 2 mm thick; 102.3 mm wide | | | |
| | gray | 885-546 | 25 |
| Jumper | | | |
| | 2-way | 885-406 | 5 |
| | 3-way | 885-426 | 5 |
| Empty housing; 17.8 mm thick | | | |
| | gray | 885-506 | 25 |
| Cover; 1 m long | | | |
| | transparent | 885-566 | 1 |
| Clip; secures cover against slipping | | | |
| | gray | 885-580 | 100 (25) |

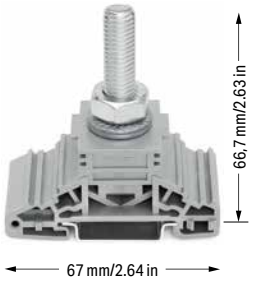
| Technical Data | |
|---|---|
| Nominal cross-section: 50 mm² | |
| 2.5 … 50 mm² ❷ | 14 … 1/0 AWG |
| 1000 V/8 kV/3 ❹ | 600 V, 150 A |
| $I_N$ 150 A | 600 V, 150 A |
| Terminal block width: 22.8 mm / 0.898 inch | |
| Tightening torque: 6 … 12 Nm | |
| Thread size: M8 | |
| Actuation type: Open-end, ring, socket wrench; 13 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |




| Stud terminal block; 1 stud, M8 | | |
|---|---|---|
| Color | Item No. | PU |
| gray | 885-108 | 25 |

| Item-Specific Accessories | | | |
|---|---|---|---|
| Separator plate; 2 mm thick; 110.3 mm wide | | | |
| | gray | 885-528 | 25 |
| Separator plate with jumper slot; 2 mm thick; 110.3 mm wide | | | |
| | gray | 885-548 | 25 |
| Jumper; 2-way | | | |
| | 2-way | 885-408 | 5 |
| | 3-way | 885-428 | 5 |
| Step-down jumper; from M8 to M6 | | | |
| | | 885-448 | 5 |
| Empty housing; 22.8 mm thick | | | |
| | gray | 885-508 | 20 |
| Cover; 1 m long | | | |
| | transparent | 885-566 | 1 |
| Clip; secures cover against slipping | | | |
| | gray | 885-580 | 100 (25) |

| Technical Data | |
|---|---|
| Nominal cross-section: 120 mm² | |
| 6 … 120 mm² ❸ | 10 AWG … 250 kcmil |
| 1000 V/8 kV/3 ❹ | 600 V, 255 A |
| $I_N$ 269 A | 600 V, 255 A |
| Terminal block width: 33.8 mm / 1.331 inch | |
| Tightening torque: 10 … 20 Nm | |
| Thread size: M10 | |
| Actuation type: Open-end, ring, socket wrench; 17 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |




| Stud terminal block; 1 stud, M10 | | |
|---|---|---|
| Color | Item No. | PU |
| gray | 885-110 | 20 |

| Item-Specific Accessories | | | |
|---|---|---|---|
| Separator plate; 2 mm thick; 157 mm wide | | | |
| | gray | 885-530 | 25 |
| Separator plate with jumper slot; 2 mm thick; 157 mm wide | | | |
| | gray | 885-550 | 25 |
| Jumper; 2-way | | | |
| | 2-way | 885-410 | 5 |
| | 3-way | 885-430 | 5 |
| Step-down jumper; from M10 to M6 | | | |
| | | 885-470 | 5 |
| Empty housing; 33.8 mm thick | | | |
| | gray | 885-510 | 20 |
| Cover; 1 m long | | | |
| | transparent | 885-570 | 1 |
| Clip; secures cover against slipping | | | |
| | gray | 885-580 | 100 (25) |

| Technical Data | |
|---|---|
| Nominal cross-section: 120 mm² | |
| 6 … 120 mm² ❸ | 10 AWG … 250 kcmil |
| 1000 V/8 kV/3 ❹ | 600 V, 255 A |
| $I_N$ 269 A | 600 V, 255 A |
| Terminal block width: 33.8 mm / 1.331 inch | |
| Tightening torque: 10 … 20 Nm | |
| Thread size: M12 | |
| Actuation type: Open-end, ring, socket wrench; 19 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |


| Stud terminal block; 1 stud, M12 | | |
|---|---|---|
| Color | Item No. | PU |
| gray | 885-112 | 20 |

**Item-Specific Accessories**

Separator plate; 2 mm thick; 157 mm wide

| | | |
|---|---|---|
| gray | 885-530 | 25 |

Separator plate with jumper slot; 2 mm thick; 157 mm wide

| | | |
|---|---|---|
| gray | 885-550 | 25 |

Jumper; 2-way

| | | |
|---|---|---|
| 2-way | 885-412 | 5 |
| 3-way | 885-432 | 5 |

Empty housing; 33.8 mm thick

| | | |
|---|---|---|
| gray | 885-510 | 20 |

Cover; 1 m long



| | | |
|---|---|---|
| transparent | 885-570 | 1 |

Clip; secures cover against slipping

| | | |
|---|---|---|
| gray | 885-580 | 100 (25) |

❶ Conductor cross-section
DIN 46234: 1 cable lug per side: 2.5 … 35 mm²
DIN 46234: 2 cable lugs per side: 2.5 … 35 mm²
DIN 46235: 1 cable lug per side: 6 … 25 mm²
DIN 46235: 2 cable lugs per side: 6 … 25 mm²

❷ Conductor cross-section
DIN 46234: 1 cable lug per side: 2.5 … 50 mm²
DIN 46234: 2 cable lugs per side: 2.5 … 50 mm²
DIN 46235: 1 cable lug per side: 6 … 35 mm²
DIN 46235: 2 cable lugs per side: 6 … 35 mm²

❸ Conductor cross-section
DIN 46234: 1 cable lug per side: 6 … 120 mm²
DIN 46234: 2 cable lugs per side: 6 … 120 mm²
DIN 46235: 1 cable lug per side: 10 … 95 mm²
DIN 46235: 2 cable lugs per side: 10 … 95 mm²

❹ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree

Please observe the application notes of the cable lug manufacturers regarding the strip length and the appropriate conductor cross sections.

Approvals and corresponding ratings, visit www.wago.com

# Stud Terminal Block
## 885 Series

| Technical Data | |
|---|---|
| Nominal cross-section: 35 mm² | |
| 2.5 … 35 mm² ❶ | 14 … 1/0 AWG |
| 1000 V/8 kV/3 ❹ | 600 V, 115 A |
| $I_N$ 125 A | 600 V, 115 A |
| Terminal block width: 17.8 mm / 0.917 inch | |
| Tightening torque: 3 … 6 Nm | |
| Thread size: M6 | |
| Actuation type: Open-end, ring, socket wrench; 10 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |


| Stud terminal block; 3 studs; M6 | | |
|---|---|---|
| Color | Item No. | PU |
| gray | 885-306 | 25 |

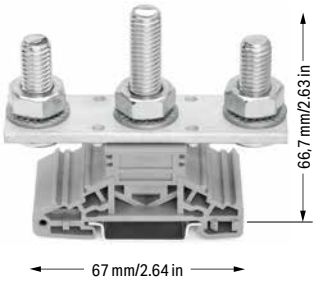
| Item-Specific Accessories | | | |
|---|---|---|---|
| Separator plate; 2 mm thick; 102.3 mm wide | | | |
| | gray | 885-526 | 25 |
| Separator plate with jumper slot; 2 mm thick; 102.3 mm wide | | | |
| | gray | 885-546 | 25 |
| Jumper | | | |
| | 2-way | 885-406 | 5 |
| | 3-way | 885-426 | 5 |
| Empty housing; 17.8 mm thick | | | |
| | gray | 885-506 | 25 |
| Cover; 1 m long | | | |
| | transparent | 885-566 | 1 |
| Clip; secures cover against slipping | | | |
| | gray | 885-580 | 100 (25) |

| Technical Data | |
|---|---|
| Nominal cross-section: 50 mm² | |
| 2.5 … 50 mm² ❷ | 14 … 1/0 AWG |
| 1000 V/8 kV/3 ❹ | 600 V, 150 A |
| $I_N$ 150 A | 600 V, 150 A |
| Terminal block width: 22.8 mm / 0.898 inch | |
| Tightening torque: 6 … 12 Nm | |
| Thread size: M8 | |
| Actuation type: Open-end, ring, socket wrench; 13 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |


| Stud terminal block; 3 studs; M8 | | |
|---|---|---|
| Color | Item No. | PU |
| gray | 885-308 | 20 |

| Item-Specific Accessories | | | |
|---|---|---|---|
| Separator plate; 2 mm thick; 110.3 mm wide | | | |
| | gray | 885-528 | 25 |
| Separator plate with jumper slot; 2 mm thick; 110.3 mm wide | | | |
| | gray | 885-548 | 25 |
| Jumper; 2-way | | | |
| | 2-way | 885-408 | 5 |
| | 3-way | 885-428 | 5 |
| Step-down jumper; from M8 to M6 | | | |
| | | 885-448 | 5 |
| Empty housing; 22.8 mm thick | | | |
| | gray | 885-508 | 20 |
| Cover; 1 m long | | | |
| | transparent | 885-566 | 1 |
| Clip; secures cover against slipping | | | |
| | gray | 885-580 | 100 (25) |

| Technical Data | |
|---|---|
| Nominal cross-section: 120 mm² | |
| 6 … 120 mm² ❸ | 10 AWG … 250 kcmil |
| 1000 V/8 kV/3 ❹ | 600 V, 255 A |
| $I_N$ 269 A | 600 V, 255 A |
| Terminal block width: 33.8 mm / 1.331 inch | |
| Tightening torque: 10 … 20 Nm | |
| Thread size: M10 | |
| Actuation type: Open-end, ring, socket wrench; 17 mm | |
| Insulation material: Polyamide 66 (PA66) | |
| Flammability class UL 94: V0 | |
| Continuous operating temperature: -35 … +105 °C | |




| Stud terminal block; 3 studs; M10 | | |
|---|---|---|
| Color | Item No. | PU |
| gray | 885-310 | 10 |

| Item-Specific Accessories | | | |
|---|---|---|---|
| Separator plate; 2 mm thick; 157 mm wide | | | |
| | gray | 885-530 | 25 |
| Separator plate with jumper slot; 2 mm thick; 157 mm wide | | | |
| | gray | 885-550 | 25 |
| Jumper; 2-way | | | |
| | 2-way | 885-410 | 5 |
| | 3-way | 885-430 | 5 |
| Step-down jumper; from M10 to M6 | | | |
| | | 885-470 | 5 |
| Empty housing; 33.8 mm thick | | | |
| | gray | 885-510 | 20 |
| Cover; 1 m long | | | |
| | transparent | 885-570 | 1 |
| Clip; secures cover against slipping | | | |
| | gray | 885-580 | 100 (25) |

❶ Conductor cross-section
DIN 46234: 1 cable lug per side: 2.5 … 35 mm²
DIN 46234: 2 cable lugs per side: 2.5 … 35 mm²
DIN 46235: 1 cable lug per side: 6 … 25 mm²
DIN 46235: 2 cable lugs per side: 6 … 25 mm²

❷ Conductor cross-section
DIN 46234: 1 cable lug per side: 2.5 … 50 mm²
DIN 46234: 2 cable lugs per side: 2.5 … 50 mm²
DIN 46235: 1 cable lug per side: 6 … 35 mm²
DIN 46235: 2 cable lugs per side: 6 … 35 mm²

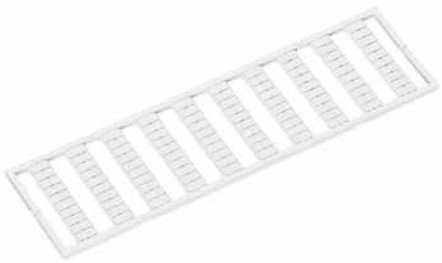
❸ Conductor cross-section
DIN 46234: 1 cable lug per side: 6 … 120 mm²
DIN 46234: 2 cable lugs per side: 6 … 120 mm²
DIN 46235: 1 cable lug per side: 10 … 95 mm²
DIN 46235: 2 cable lugs per side: 10 … 95 mm²

❹ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree

Please observe the application notes of the cable lug manufacturers regarding the strip length and the appropriate conductor cross sections.

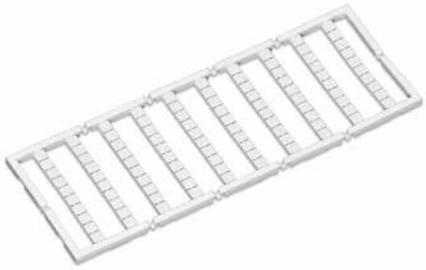
Approvals and corresponding ratings,
visit www.wago.com

# Marking System



| WMB marker card; plain; 10 strips with 10 markers/card | | | |
|---|---|---|---|
| Color | 5 mm<br>Item No. | 5 … 5.2 mm<br>Item No. | PU |
| white | 793-501 | 793-5501 | 5 |
| yellow | 793-501/000-002 | 793-5501/000-002 | 5 |
| red | 793-501/000-005 | 793-5501/000-005 | 5 |
| blue | 793-501/000-006 | 793-5501/000-006 | 5 |
| gray | 793-501/000-007 | 793-5501/000-007 | 5 |
| orange | 793-501/000-012 | 793-5501/000-012 | 5 |
| light green | 793-501/000-017 | 793-5501/000-017 | 5 |
| green | 793-501/000-023 | 793-5501/000-023 | 5 |
| violet | 793-501/000-024 | 793-5501/000-024 | 5 |

| WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm | | |
|---|---|---|
| Color | 5 … 5.2 mm<br>Item No. | PU |
| white | 2009-115 | 1 |



| Mini-WSB marker card; plain; 10 strips with 10 markers/card | | |
|---|---|---|
| Color | Item No. | PU |
| white | 248-501 | 5 |
| yellow | 248-501/000-002 | 5 |
| red | 248-501/000-005 | 5 |
| blue | 248-501/000-006 | 5 |
| gray | 248-501/000-007 | 5 |
| orange | 248-501/000-012 | 5 |
| light green | 248-501/000-017 | 5 |
| green | 248-501/000-023 | 5 |
| violet | 248-501/000-024 | 5 |

| Mini-WSB Inline; plain; 1,700 markers (5 mm)/reel; stretchable 5 … 5.2 mm | | |
|---|---|---|
| Color | Item No. | PU |
| white | 2009-145 | 1 |

# Marking System

| Marker carrier; for lateral marker slots; 5 mm wide | | |
|---|---|---|
| Color | Item No. | PU |
| gray | 2009-198 | 200 (25) |

| Marking strip; plain; 11 mm wide; 50 m reel | | |
|---|---|---|
| Color | Item No. | PU |
| white | 2009-110 | 1 |

# Terminating Aluminum Conductors to Screw and Stud Terminal Blocks

**Terminating Aluminum Conductors to Screw Terminal Blocks**
Screw-clamp terminal blocks directly connect round solid (RS) or sector-shaped solid (SS) aluminum conductors on one or both sides in compliance with the restrictions and processing instructions given in this description.

| Item number | Approved combinations of screw terminal blocks with aluminum conductors | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2.5 mm² | 4 mm² | 6 mm² | 10 mm² | 16 mm² | 25 mm² | 35 mm² | 50 mm² | 70 mm² | 95 mm² | 120 mm² | 150 mm² | 185 mm² | 240 mm² |
| 883-350x | RS | RS | RS | RS | RS | RS | RS | | | | | | | |
| 883-700x | | | | | RS | RS | RS | SS | SS | | | | | |
| 883-120x | | | | | | | RS | SS | SS | SS | SS | | | |
| 883-240x | | | | | | | | | | | | SS | SS | SS |

The following restrictions apply to the direct connection of conductors in standard environments:
- The conductor/terminal block combination used must correspond to a combination of the above table “Approved combinations of screw terminal blocks with aluminum conductors.”
- The aluminum conductors used must be round solid conductors (RS) or sector-shaped solid conductors (SS).
- For all other types of stranded aluminum conductors, appropriate aluminum/copper compression connectors must be used to connect the conductor to a terminal block.
- Sector-shaped solid conductors (SS) must comply with conductor class 1, sector-shaped, solid, α=90°.
- Contact must always be made between the large radius and the current bar to achieve the maximum contact surface.

Sector-shaped solid conductor (SS) of conductor class 1 (α = 90°)

Connecting a sector-shaped conductor to a 120 mm² screw through terminal block

**Note:**
Connection in humid environments or corrosive atmospheres is generally problematic, because this can easily lead to an excessive aluminum oxidation. In this case, the use of suitable aluminum/copper press connectors with copper connection studs (even when using solid aluminum conductors) is absolutely necessary to ensure a reliable connection over extended periods of time.

Example:
Rail-mount terminal blocks are installed in the outdoor cabinets of solar or wind power plants, which are subject to large temperature fluctuations throughout the year due to their installation site and environment. Therefore, in some circumstances, condensation water can form in the control cabinet or in the housing.

**Terminating Aluminum Conductors to Stud Terminal Blocks**
For connecting aluminum conductors to 884 and 885 Series Stud Terminal Blocks, appropriate ring-shaped aluminum/copper compression cable lugs must be crimped to the conductor ends.

# Processing Information for Terminating Aluminum Conductors

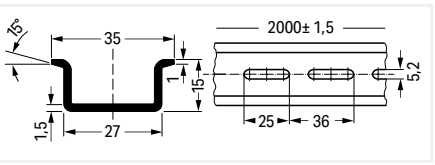
| Syringe; contains 20 ml “Alu-Plus“ Contact Paste | | |
|---|---|---|
| | Item No. | PU |
| | **249-130** | 20 (5) |

**For terminating aluminum conductors, the following additional instructions for conductor preparation apply:**
A thin, electrically non-conductive oxide layer forms on the surface of aluminum conductors during stripping. This layer must be removed to create a conductive and gas-tight connection.

The following measures must therefore be taken to ensure a reliable contact:
- The installation and operating location must be kept free of moisture or corrosive atmosphere.
- The strip length specified in the technical data of the terminal blocks must be observed.
- The conductor end must be freed of its oxide layer with a clean scraper and immediately dipped into acid- and alkali-free (neutral) petroleum jelly (Alu-Plus Contact Paste, 249-130) and connected directly to the rail-mount terminal block.
- The screw within the clamp body must be tightened to the maximum permissible torque specification of the respective terminal block.
- After a few days, the connection must be tightened again.
- Repeat these measures whenever you connect a new cable or reconnect a previously used cable.

# DIN-Rail and End Stop

Dimensions in mm

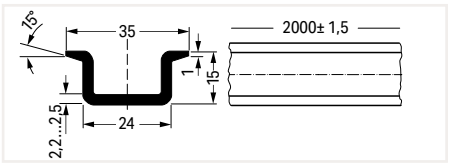



| Steel DIN-rail; $I_N$ 125 A (based on 1 m length); 35 x 15 mm; 1.5 mm thick; 2 m long; similar to EN 60715 | | |
|---|---|---|
| | Item No. | PU |
| unslotted | **210-114** | 10 (1) |
| slotted | **210-197** | 10 (1) |

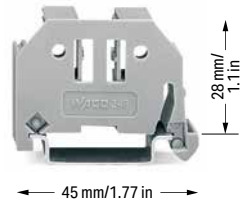
| Hole width: 25 mm; Hole spacing: 36 mm | | |
|---|---|---|
| slotted | **210-112** | 10 (1) |

| Hole width: 18 mm; Hole spacing: 25 mm | | |
|---|---|---|
| slotted | **210-115** | 1 |

Dimensions in mm

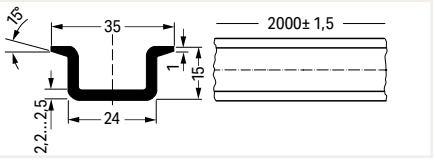



| Steel DIN-rail; $I_N$ 125 A (based on 1 m length); 35 x 15 mm; 2.3 mm thick; 2 m long; per EN 60715 | | |
|---|---|---|
| | Item No. | PU |
| unslotted | **210-118** | 10 (1) |

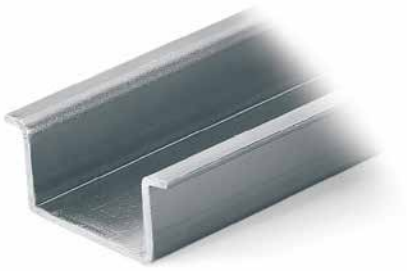



| Screwless end stop; for DIN-35 rail; 10 mm wide | | |
|---|---|---|
| Color | Item No. | PU |
| gray | **249-117** | 100 (25) |

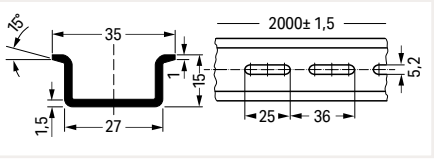
Dimensions in mm




| Copper DIN-rail; $I_N$ 309 A (based on 1 m length); 35 x 15 mm; 2.3 mm thick; 2 m long; per EN 60715 | | |
|---|---|---|
| | Item No. | PU |
| unslotted | **210-198** | 10 (1) |



Dimensions in mm




| Steel DIN-rail; $I_N$ 125 A (based on 1 m length); 35 x 15 mm; 1.5 mm thick; 2 m long; per EN 60715 | | |
|---|---|---|
| | Item No. | PU |
| unslotted | **210-506** | 1 |
| slotted | **210-508** | 1 |


| Screwless end stop; for DIN-35 rail; 14 mm wide | | |
|---|---|---|
| Color | Item No. | PU |
| gray | **249-197** | 10 |

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