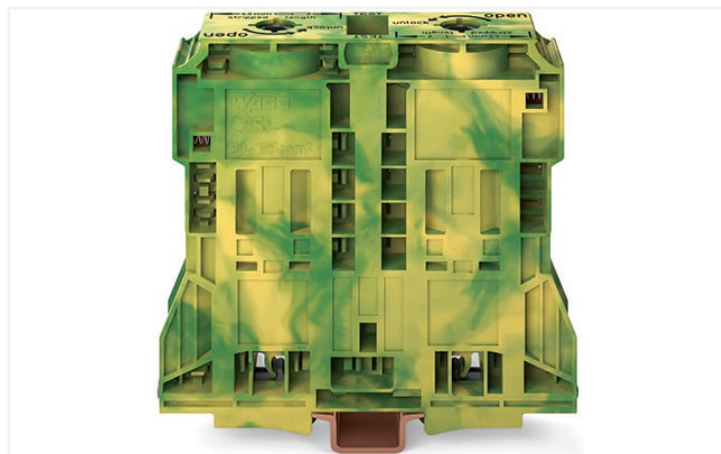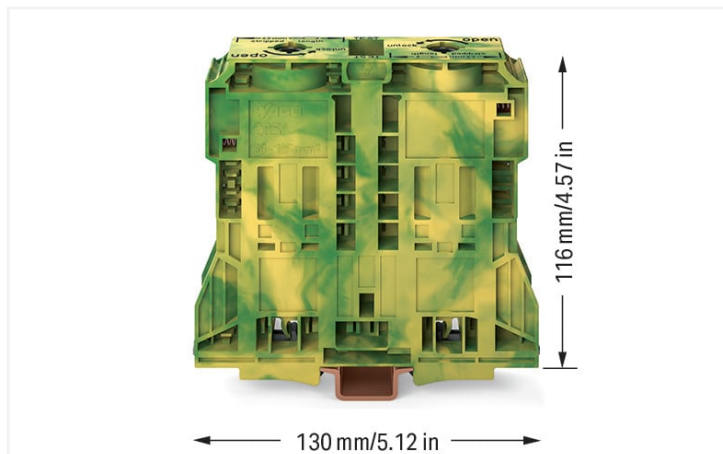# Data Sheet | Item Number: 285-1187

2-conductor ground terminal block; 120 mm²; lateral marker slots; only for DIN 35 x 15 rail; 2.3 mm thick; copper; POWER CAGE CLAMP; 120,00 mm²; green-yellow

https://www.wago.com/285-1187

Color: green-yellow

## Electrical data

### Ratings per IEC/EN

| Ratings per | IEC/EN 60947-7-2 |
|---|---|

## Connection data

| | |
|---|---|
| Connection points | 2 |
| Total number of potentials | 1 |
| Number of levels | 1 |
| Number of jumper slots | 2 |

### Connection 1

| | |
|---|---|
| Connection technology | POWER CAGE CLAMP |
| Actuation type | T-wrench; 8 mm |
| Connectable conductor materials | Copper |
| Nominal cross-section | 120 mm² / 250 kcmil |
| Solid conductor | 50 … 120 mm² / 1/0 AWG … 250 kcmil |
| Stranded conductor | 50 … 120 mm² / 1/0 AWG … 250 kcmil |
| Fine-stranded conductor | 50 … 120 mm² / 1/0 AWG … 250 kcmil |
| Fine-stranded conductor; with insulated ferrule | 50 … 120 mm² / 1/0 AWG … 250 kcmil |
| Fine-stranded conductor; with uninsulated ferrule | 50 … 120 mm² / 1/0 AWG … 250 kcmil |
| Strip length | 45 … 47 mm / 1.77 … 1.85 inches |
| Wiring direction | Side-entry wiring |

## Physical data

| | |
|---|---|
| Width | 32 mm / 1.26 inches |
| Height | 130 mm / 5.118 inches |
| Depth from upper-edge of DIN-rail | 116 mm / 4.567 inches |

Version 05.04.2023

**WAGO**

## Mechanical data

| | |
|---|---|
| Mounting type | DIN-rail 35 x 15; 2.3 mm thick; copper |
| Mounting (note) | only suitable for DIN 35 x 15 copper rail; 2.3 mm thick |
| Marking level | Side marking |

## Material data

| | |
|---|---|
| Note (material data) | Information on material specifications can be found here |
| Color | green-yellow |
| Material group | I |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 1.564 MJ |
| Weight | 645.4 g |

## Environmental requirements

| | |
|---|---|
| Processing temperature | -35 … +85 ℃ |
| Continuous operating temperature | -60 … +105 ℃ |

## Commercial data

| | |
|---|---|
| Product Group | 1 (Rail Mounted Terminal Blocks) |
| eCl@ss 10.0 | 27-14-11-41 |
| eCl@ss 9.0 | 27-14-11-41 |
| ETIM 8.0 | EC000901 |
| ETIM 7.0 | EC000901 |
| PU (SPU) | 5 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4055143067072 |
| Customs tariff number | 85369010000 |

## Approvals / Certificates

### General approvals

CCA  CSA  KEMA KEUR  cULus

| Approval | Standard | Certificate Name |
|---|---|---|
| CCA DEKRA Certification B.V. | EN 60947 | NTR NL 7965 |
| CSA DEKRA Certification B.V. | C22.2 No. 158 | 154112 |
| KEMA/KEUR DEKRA Certification B.V. | EN 60947 | 71-126013 |
| UL Underwriters Laboratories Inc. | UL 1059 | E45172 |

### Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|---|---|
| EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

## Approvals for marine applications

| Approval | Standard | Certificate Name |
|---|---|---|
| ABS<br>American Bureau of Shipping | EN 60947 | 20-HG1941090-PDA |
| DNV GL<br>Det Norske Veritas, Germanischer Lloyd | - | TAE00001V2 |

## Approvals for hazardous areas

**AEx**

| Approval | Standard | Certificate Name |
|---|---|---|
| AEx<br>Underwriters Laboratories Inc. | - | E185892 (AEx eb II C resp. Ex eb II C) |

## Downloads

### Environmental Product Compliance

| Compliance Search | |
|---|---|
| Environmental Product Compliance 285-1187 | ↓ |

## Documentation

### Additional Information

| Technical Section | pdf<br>2142.18 KB | ↓ |
|---|---|---|

### Bid Text

| 285-1187 | 19.02.2019 | xml<br>3.54 KB | ↓ |
|---|---|---|---|
| 285-1187 | 04.01.2018 | doc<br>25.00 KB | ↓ |

## CAD/CAE-Data

### CAD data

| 2D/3D Models<br>285-1187 | ↓ |
|---|---|

### CAE data

| EPLAN Data Portal<br>285-1187 | ↓ |
|---|---|
| WSCAD Universe<br>285-1187 | ↓ |
| ZUKEN Portal<br>285-1187 | ↓ |

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Cover

## 1.1.1.1 Cover

**Item No.: 285-1178**
Finger guard; touchproof cover protects unused conductor entries and jumper slots; for 185 mm² high-current terminal blocks; yellow

## 1.1.2 DIN-rail

### 1.1.2.1 Mounting accessories

**Item No.: 210-198**
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

## 1.1.3 Ferrule

### 1.1.3.1 Ferrule

**Item No.: 216-413**
Ferrule; Sleeve for 25 mm² / AWG 4; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

**Item No.: 216-414**
Ferrule; Sleeve for 35 mm² / AWG 2; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

**Item No.: 216-424**
Ferrule; Sleeve for 35 mm² / AWG 2; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

**Item No.: 216-425**
Ferrule; Sleeve for 50 mm² / AWG 1; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

**Item No.: 216-435**
Ferrule; Sleeve for 50 mm² / AWG 1; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

## 1.1.4 Installation

### 1.1.4.1 Mounting accessories

**Item No.: 285-1179**
Fixing element; for 185 mm² high-current terminal blocks; orange

**Item No.: 249-197**
Screwless end stop; 14 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

## 1.1.5 Jumper

### 1.1.5.1 Jumper

**Item No.: 285-1171**
Jumper; insulated; gray

## 1.1.6 Marking

## 1.1.6.1 Marker

Item No.: 793-5501/000-006
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item No.: 793-5501/000-014
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown

Item No.: 793-5501/000-007
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray

Item No.: 793-5501/000-023
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item No.: 793-5501/000-017
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green

Item No.: 793-5501/000-012
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange

Item No.: 793-5501/000-005
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red

Item No.: 793-5501/000-024
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Item No.: 793-5501
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 793-5501/000-002
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

Item No.: 793-501/000-006
WMB marking card; as card; not stretchable; plain; snap-on type; blue

Item No.: 793-501/000-007
WMB marking card; as card; not stretchable; plain; snap-on type; gray

Item No.: 793-501/000-023
WMB marking card; as card; not stretchable; plain; snap-on type; green

Item No.: 793-501/000-017
WMB marking card; as card; not stretchable; plain; snap-on type; light green

Item No.: 793-501/000-012
WMB marking card; as card; not stretchable; plain; snap-on type; orange

Item No.: 793-501/000-005
WMB marking card; as card; not stretchable; plain; snap-on type; red

Item No.: 793-501/000-024
WMB marking card; as card; not stretchable; plain; snap-on type; violet

Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white

Item No.: 793-501/000-002
WMB marking card; as card; not stretchable; plain; snap-on type; yellow

Item No.: 2009-115/000-006
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item No.: 2009-115/000-007
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

Item No.: 2009-115/000-023
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item No.: 2009-115/000-017
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green

Item No.: 2009-115/000-012
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

Item No.: 2009-115/000-005
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

Item No.: 2009-115/000-024
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 2009-115/000-002
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

## 1.1.6.2 Marking strip

Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

## 1.1.7 Power tap

## 1.1.7.1 Power tap

Item No.: 285-1175
Power tap; for 185 mm² high-current terminal blocks; 10,00 mm²; gray

## 1.1.8 Protective warning marker

## 1.1.8.1 Cover

**Item No.: 285-1177**
Protective warning marker; with high-voltage symbol, black; yellow

**Item No.: 285-1176**
Protective warning marker; yellow

## 1.1.9 Tool

### 1.1.9.1 Operating tool

**Item No.: 285-172**
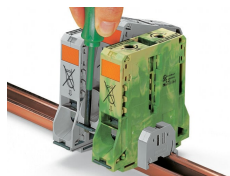Allen wrench; with a partially insulated shaft; green

**Item No.: 285-173**
Allen wrench; with a partially insulated shaft; with anti-rotation protection; green

## Installation Notes

### Installation

Removing a terminal block from the assembly (to the left or to the right).

Grounding foot:
Ground conductor terminal blocks (limited to max. 120 mm²/250 kcmil per EN 60947-7-2) must be snapped onto a 2.3 mm thick copper DIN-rail.

### Conductor termination

For the optimal clamping force:Bend conductor Cut conductor to length (conductor end must be straight) Strip conductor

Always observe the on-unit printed strip length guide!

Conductor termination – step 1:
Rotate the T-wrench counter-clockwise to the stop . Next, push in the orange locking tab. The clamp is locked open for hands-free wiring.
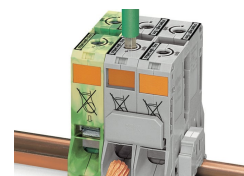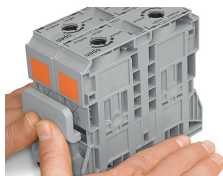
Conductor termination – step 2:
Insert a stripped conductor into the clamping unit until it hits the backstop. Hold in this position.
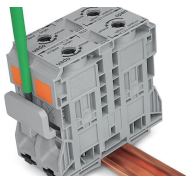
Conductor termination – step 3:
A short counter-clockwise rotation releases the tab. When unlocked, the T-wrench rotates clockwise, securely clamping the conductor.

## Commoning

Commoning with an adjacent jumper: insert the jumper above the conductor entry hole – prior to conductor termination. The nominal cross-section remains unchanged.
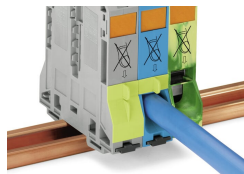
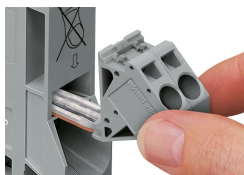Removing jumper via operating tool.

## Cover

Protective warning marker may indicate: Notice: Power is still on even after switching off the main switch!

Yellow, detachable finger guards provide touch-proof safety by shielding jumper contact slots and/or unused conductor entries.
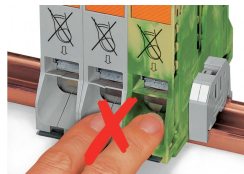
## Power tap

Easily and consistently tap directly into the power supply. Insert the unwired tap before opening the clamping unit.

## Security

Risk of Injury!
Do not insert fingers in the conductor entry!
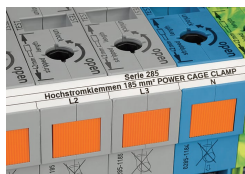
## Testing

Testing via touch-proof 4 mm Ø test plugs (not available from WAGO, but offered by industry suppliers such as, Multi-Contact Deutschland GmbH).

TestingVoltage measurements can be performed, e.g., using a 2-pole voltage tester (206-707).

## Marking



In addition to WMB markers, marking strips can be directly applied to 185 mm² (350 kcmil) high-current terminal blocks.