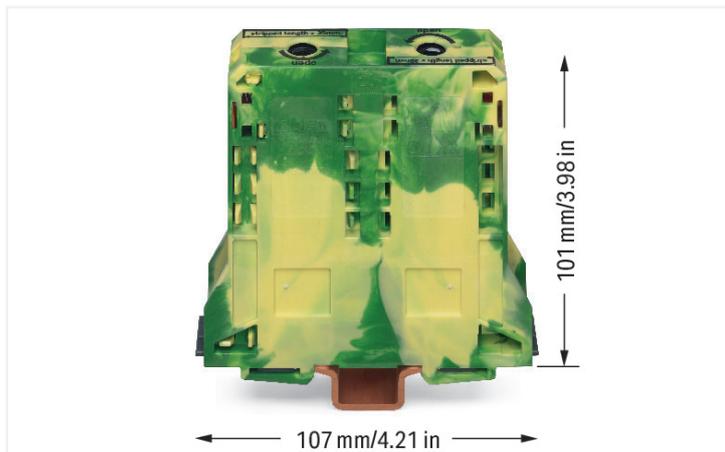


## Data Sheet | Item Number: 285-197/999-950

2-conductor ground terminal block; 95 mm<sup>2</sup>; suitable for Ex e II applications; lateral marker slots; only for DIN 35 x 15 rail; 2.3 mm thick; copper; POWER CAGE CLAMP; 95,00 mm<sup>2</sup>; green-yellow

<https://www.wago.com/285-197/999-950>



Color: ■ green-yellow

Similar to illustration

Similar to illustration

### High-current terminal block, 285 Series, green-yellow

Quick and easy connections are guaranteed with this ground terminal block (item number 285-197/999-950). Conductors can only be connected to this ground terminal block if their strip length is 35 mm. This product features conductor terminals and utilizes POWER CAGE CLAMP. The POWER CAGE CLAMP is perfect for connecting large conductor cross-sections. This universal connector is both reliable and maintenance-free. What's more, you can use it to connect all types of conductors and the clamping point can be locked open, making it easier to use. You do not need to use a torque wrench or prepare the conductor. For example, crimping ferrules is not necessary. This ground terminal block is suitable for conductor cross sections ranging from 35 mm<sup>2</sup> to 70 mm<sup>2</sup>.

This product is designed for specific Ex applications (please refer to the product datasheet).

#### Electrical data

##### Ex information

Reference to hazardous areas	See "Downloads – Documentation – Additional Information: Technical Section; Technical Explanations"
------------------------------	---

##### General information

Wiring direction	Side-entry wiring
------------------	-------------------

#### Connection Data

Clamping units	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	95 mm <sup>2</sup>
Solid conductor	35 ... 70 mm <sup>2</sup> / 2 ... 2/0 AWG
Stranded conductor	25 ... 95 mm <sup>2</sup> / 4 ... 4/0 AWG
Fine-stranded conductor	35 ... 70 mm <sup>2</sup> / 2 ... 2/0 AWG
Fine-stranded conductor; with insulated ferrule	25 ... 95 mm <sup>2</sup> / 4 ... 4/0 AWG

### Connection 1

Fine-stranded conductor; with uninsulated ferrule	25 ... 95 mm <sup>2</sup> / 4 ... 4/0 AWG
Strip length	35 mm / 1.38 inches
Wiring direction	Side-entry wiring

### Physical data

Width	25 mm / 0.984 inches
Height	107 mm / 4.213 inches
Depth from upper-edge of DIN-rail	101 mm / 3.976 inches

### Mechanical data

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

### Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	green-yellow
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	3.262 MJ
Weight	309.3 g

### Environmental requirements

Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

### Commercial data

PU (SPU)	5 pcs
Packaging type	Box
Country of origin	PL
GTIN	4045454204389
Customs tariff number	85369010000

### Product Classification

UNSPSC	39121410
eCl@ss 10.0	27-14-11-41
eCl@ss 9.0	27-14-11-41
ETIM 9.0	EC000901
ETIM 10.0	EC000901
ECCN	NO US CLASSIFICATION

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
------------------------	-------------------------

**Approvals / Certificates**

**General approvals** **Declarations of conformity and manufacturer's declarations**



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7707
CSA CSA Group	C22.2	1151144
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-105562

Approval	Standard	Certificate Name
ATEX-Attestation of Conformity WAGO GmbH & Co. KG	-	-
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 American Bureau of Shipping	EN 60947	24-0152298-PDA

**Approvals for hazardous areas**



Approval	Standard	Certificate Name
AEx Underwriters Laboratories Inc.	-	E185892 (AEx eb II C resp. Ex eb II C)
ATEX Physikalisch Technische Bundesanstalt	EN 60079-0	PTB 98 ATEX 3134 U (II 2 G Ex eb IIC Gb or I M 2 Ex eb I Mb)
CCC CNEX	GB/T 3836.3	2020312313000177 (Ex eb IIC Gb, Ex eb I Mb)
IECEx Physikalisch Technische Bundesanstalt	IEC 60079-0	IECEx PTB 16.0001U (Ex eb IIC Gb or Ex eb I Mb)

**Downloads**

**Environmental Product Compliance**

Compliance Search	
Environmental Product Compliance 285-197/999-950	<a href="#">↓</a>

**Documentation**

Bid Text			
285-197/999-950	19.02.2019	xml 3.16 KB	<a href="#">↓</a>
285-197/999-950	04.01.2018	doc 23.50 KB	<a href="#">↓</a>

## CAD/CAE-Data

CAD data	CAE data
2D/3D Models 285-197/999-950 	EPLAN Data Portal 285-197/999-950 
	WSCAD Universe 285-197/999-950 
	ZUKEN Portal 285-197/999-950 

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Cover

##### 1.1.1.1 Cover



**Item No.: 285-169**

Finger guard; touchproof cover protects unused conductor entries and jumper slots; for 95 mm<sup>2</sup> high-current tbs; yellow

#### 1.1.2 Current and voltage tap

##### 1.1.2.1 Current and voltage tap



**Item No.: 855-951/250-000**

Current and voltage tap up to 95 mm<sup>2</sup>; Primary rated current: 250 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 0.5; fused

#### 1.1.3 DIN-rail

##### 1.1.3.1 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

### 1.1.4 Ferrule

#### 1.1.4.1 Ferrule



**Item No.: 216-435**

Ferrule; Sleeve for 50 mm<sup>2</sup> / AWG 1; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

### 1.1.5 Installation

#### 1.1.5.1 Mounting accessories



**Item No.: 285-168**

Fixing element; for 95 mm<sup>2</sup> 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

### 1.1.6 Jumper

#### 1.1.6.1 Jumper



**Item No.: 285-495**

Jumper; insulated; gray

### 1.1.7 Marking

#### 1.1.7.1 Group marker carrier



**Item No.: 249-105**

Group marker carrier; gray

#### 1.1.7.2 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; green



**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

1.1.7.2 Marker



**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

1.1.7.3 Marker carrier



**Item No.: 285-442**  
Adaptor; gray

1.1.8 Power tap

1.1.8.1 Power tap



**Item No.: 285-407**  
Power tap; for 95 mm<sup>2</sup> high-current tbs; gray

1.1.9 Protective warning marker

1.1.9.1 Cover



**Item No.: 285-170**  
Protective warning marker; with high-voltage symbol; black; yellow

**Item No.: 285-175**  
Protective warning marker; yellow

### 1.1.10 Tool

#### 1.1.10.1 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



Firmly snap a ground conductor terminal block onto DIN-rail. The contact foot is automatically secured on the rail, providing the appropriate power grounding connection.



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



**Grounding foot:** Ground conductor terminal blocks (limited to max. 120 mm<sup>2</sup>/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.



Insert a stripped conductor into the clamping unit until it hits the backstop. Hold in this position.



A short counter-clockwise rotation releases the tab. When unlocked, the T-wrench rotates clockwise, securely clamping the conductor.

### Commoning



Removing jumper via operating tool.



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

## 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).

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

## Marking



WMB markers or self-adhesive, printable marking strips can be accommodated on 35, 50 and 95 mm<sup>2</sup> high-current terminal blocks.

Marker carrier (Item No. 285-442) for marking strips (Item No. 2009-110) or 2 WMB markers for 285-13x, 285-15x and 285-19x Terminal Blocks