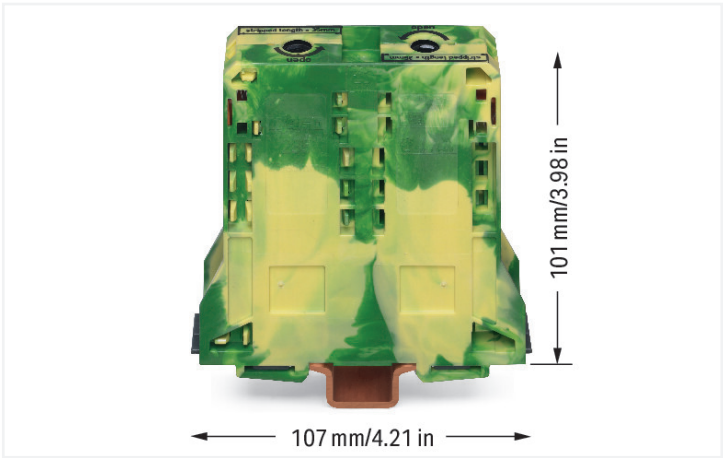


Data Sheet | Item Number: 285-197/999-950

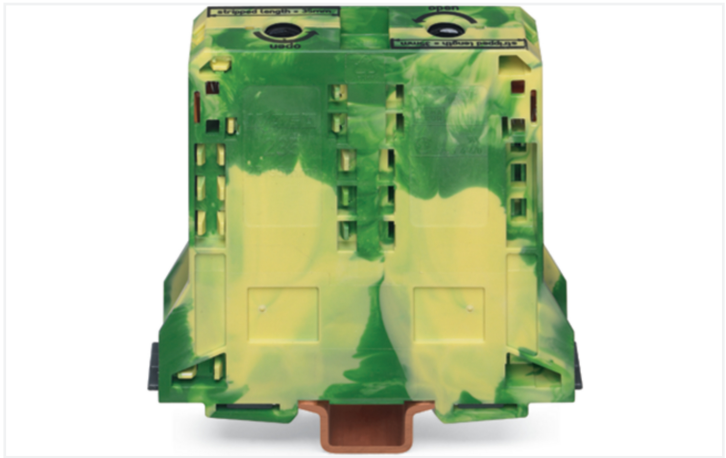
2-conductor ground terminal block; 95 mm²; suitable for Ex e II applications; lateral marker slots; only for DIN 35 x 15 rail; 2.3 mm thick; copper; POWER CAGE CLAMP; 95,00 mm²; green-yellow

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



Color: ■ green-yellow

Similar to illustration



Similar to illustration

Ground terminal block, 285 Series, power cage clamp

Connect conductors quickly and easily with this ground terminal block (item number 285-197/999-950). Conductors should only be connected to this ground terminal block if their strip length is 35 mm. Featuring conductor terminals along with POWER CAGE CLAMP, this connector delivers reliable performance. The POWER CAGE CLAMP is a powerful, maintenance-free, and universal way to connect large conductor cross-sections. It's also suitable for all conductor types. The clamping point can be locked open and you do not need to use a torque wrench or prepare the conductor in any way, e.g., by crimping the ferrule. Depending on the conductor type, this ground terminal block is ideal for conductor cross sections ranging from 35 mm² to 70 mm². It has one level. You can connect a single potential using the two clamping points. The green-yellow housing is made of polyamide (PA66) for insulation. These high-current terminal blocks are mounted using DIN-rails 35 x 15.. 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 Explications"

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 mm²
Solid conductor	35 ... 70 mm² / 2 ... 2/0 AWG
Stranded conductor	25 ... 95 mm² / 4 ... 4/0 AWG
Fine-stranded conductor	35 ... 70 mm² / 2 ... 2/0 AWG
Fine-stranded conductor; with insulated ferrule	25 ... 95 mm² / 4 ... 4/0 AWG
Fine-stranded conductor; with uninsulated ferrule	25 ... 95 mm² / 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
Mounting (note)		only suitable for DIN 35 x 15 rail
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 (main housing)		Polyamide (PA66)
Flammability class per UL94		V0
Fire load		3.266 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 8.0		EC000901
ECCN		NO US CLASSIFICATION

Environmental Product Compliance		
RoHS Compliance Status		Compliant,No Exemption



Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7707
CSA DEKRA Certification B.V.	C22.2	154112
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-105562
UL Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
ATEX-Attestation of Con- formity WAGO GmbH & Co. KG	-	-
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-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



Documentation

Bid Text			
285-197/999-950	19.02.2019	xml 3.16 KB	
285-197/999-950	04.01.2018	doc 23.50 KB	



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 mm² 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 mm²; 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				
				
<div><div>Item No.: 216-435</div><div>Ferrule; Sleeve for 50 mm² / AWG 1; unin- sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92</div></div>				
1.1.5 Installation				
1.1.5.1 Mounting accessories				
<div><div></div><div>Item No.: 285-168</div><div>Fixing element; for 95 mm² high-current terminal blocks; orange</div></div> <div><div></div><div>Item No.: 249-197</div><div>Screwless end stop; 14 mm wide; for DIN- rail 35 x 15 and 35 x 7.5; gray</div></div>				
1.1.6 Jumper				
1.1.6.1 Jumper				
<div><div></div><div>Item No.: 285-495</div><div>Jumper; insulated; gray</div></div>				
1.1.7 Marking				
1.1.7.1 Group marker carrier				
<div><div></div><div>Item No.: 249-105</div><div>Group marker carrier; gray</div></div>				
1.1.7.2 Marker				
<div><div></div><div>Item No.: 793-5501/000-006</div><div>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue</div></div>	<div><div></div><div>Item No.: 793-5501/000-014</div><div>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown</div></div>	<div><div></div><div>Item No.: 793-5501/000-007</div><div>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray</div></div>	<div><div></div><div>Item No.: 793-5501/000-023</div><div>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green</div></div>	
<div><div></div><div>Item No.: 793-5501/000-017</div><div>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green</div></div>	<div><div></div><div>Item No.: 793-5501/000-012</div><div>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange</div></div>	<div><div></div><div>Item No.: 793-5501/000-005</div><div>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red</div></div>	<div><div></div><div>Item No.: 793-5501/000-024</div><div>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet</div></div>	
<div><div></div><div>Item No.: 793-5501</div><div>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white</div></div>	<div><div></div><div>Item No.: 793-5501/000-002</div><div>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow</div></div>	<div><div></div><div>Item No.: 793-501/000-006</div><div>WMB marking card; as card; not stretcha- ble; plain; snap-on type; blue</div></div>	<div><div></div><div>Item No.: 793-501/000-007</div><div>WMB marking card; as card; not stretcha- ble; plain; snap-on type; gray</div></div>	



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 mm² 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

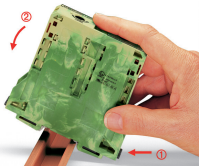


Item No.: 285-172
Allen wrench; with a partially insulated shaft; green

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 mm²/250 kcmil per EN 60947-7-2) must be snapped onto a 2.3 mm thick copper DIN-rail.

Conductor termination

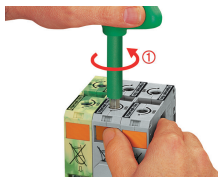


For the optimal clamping force:

- Bend conductor
- Cut conductor to length (conductor end must be straight)
- Strip conductor



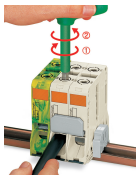
Always observe the on-unit printed strip length guide!



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.

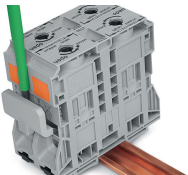


Insert a stripped conductor into the clamping unit until it hits the backstop. Hold in this position.

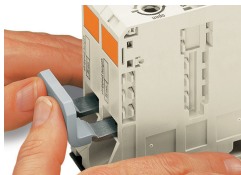


A short counter-clockwise rotation releases the tab. When unlocked, the T-wrench rotates clockwise, securely clamping the conductor.

Commoning

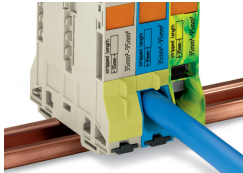
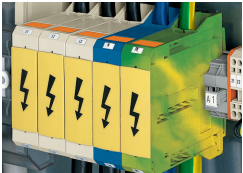


Removing jumper via operating tool.



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

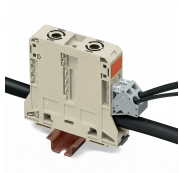
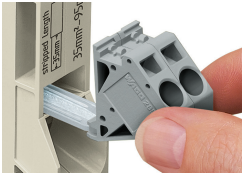
Cover



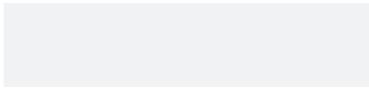
Protective warning marker may indicate:
Notice: Power is still on even after switching off the main switch!

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

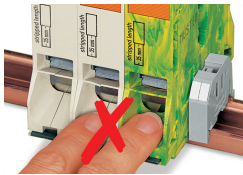
Power tap



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

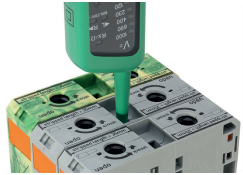


Security



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

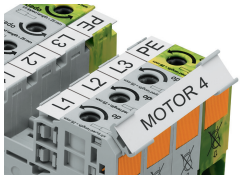
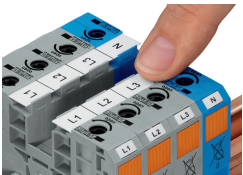
Testing



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 mm² 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