

Color: ■ green-yellow

Ground terminal block, 285 Series, power cage clamp

Our ground terminal block (item number 285-197) is the perfect way to connect conductors quickly and securely. Strip lengths must be 35 mm when connecting conductors to this ground terminal block. Featuring conductor terminals along with POWER CAGE CLAMP, this product delivers reliable performance. The POWER CAGE CLAMP is a powerful, maintenance-free, and universal way to connect large conductor cross-sections. You can also use it with 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. This ground terminal block is suitable for conductor cross sections ranging from 25 mm<sup>2</sup> to 95 mm<sup>2</sup>. 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..

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	25 ... 95 mm <sup>2</sup> / 4 ... 4/0 AWG
Stranded conductor	25 ... 95 mm <sup>2</sup> / 4 ... 4/0 AWG
Fine-stranded conductor	25 ... 95 mm <sup>2</sup> / 4 ... 4/0 AWG
Fine-stranded conductor; with insulated ferrule	25 ... 95 mm <sup>2</sup> / 4 ... 4/0 AWG
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-rail 35 x 15	
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	0.686 MJ	
Weight	309.3 g	

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

Commercial data		
Product Group	1 (Rail Mounted Terminal Blocks)	
PU (SPU)	5 pcs	
Packaging type	Box	
Country of origin	PL	
GTIN	4045454204372	
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		General approvals
		UL Underwriters Laboratories Inc.
		UL 1059
		E45172
Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7707
CSA DEKRA Certification B.V.	C22.2 No. 158	154112
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-105562



Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
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
BV Bureau Veritas S.A.	EN 60947	07436/F0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2
LR Lloyds Register	EN 60947	LR23325966TA

Approvals for hazardous areas



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

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 285-197

Documentation

Bid Text			
285-197	19.02.2019	xml 3.10 KB	↓
285-197	04.01.2018	doc 23.50 KB	↓

CAD/CAE-Data

CAD data
2D/3D Models 285-197

CAE data
EPLAN Data Portal 285-197
WSCAD Universe 285-197
ZUKEN Portal 285-197



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



**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



1.1.5 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; 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



1.1.7.2 Marker



**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



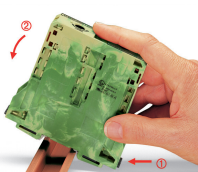
**Item No.: 285-172**  
Allen wrench; with a partially insulated shaft; green



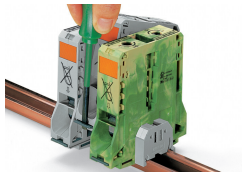
**Item No.: 285-173**  
Allen wrench; with a partially insulated shaft; with anti-rotation protection; green

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

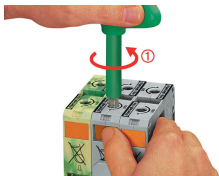


For the optimal clamping force:

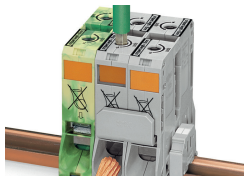
- Bend conductor
- Cut conductor to length (conductor end must be straight)
- Strip conductor



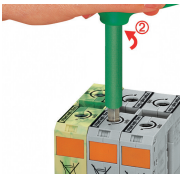
Always observe the on-unit printed strip length guide!



**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.

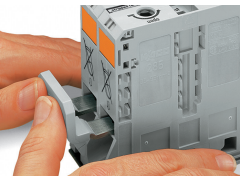


**Conductor termination – step 2:**  
Insert a stripped conductor into the clamping unit until it hits the backstop. Hold in this position.

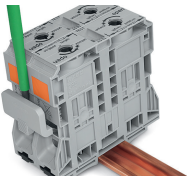


**Conductor termination – step 3:**  
A short counter-clockwise rotation releases the tab. When unlocked, the T-wrench rotates clockwise, securely clamping the conductor.

Commoning



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

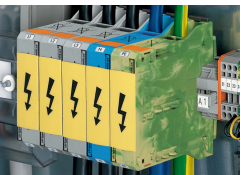


Removing jumper via operating tool.



No power taps and jumpers are required for the distribution of the ground potential. The ground conductor terminal blocks are directly connected to each other via the DIN-rail.

Cover

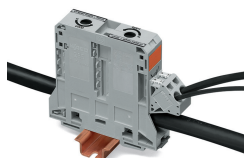
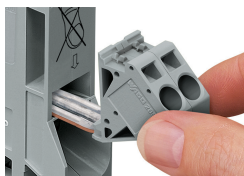


Protective warning marker may indicate: Notice: Power is still on even after switching off the main switch!



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

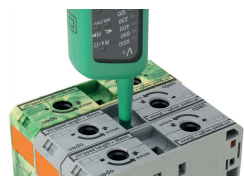


**Risk of Injury!**  
Do not insert fingers in the conductor entry!

## Testing

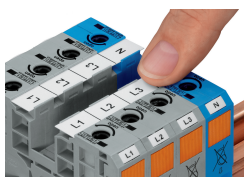


Testing via touch-proof 4 mm Ø test plugs (not available from WAGO, but offered by industry suppliers such as, Multi-Contact Deutschland GmbH).

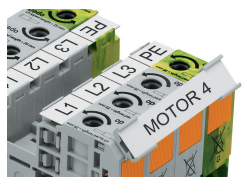


Testing  
Voltage measurements can be performed, e.g., using a 2-pole voltage tester (Item No. 206-707).

## 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