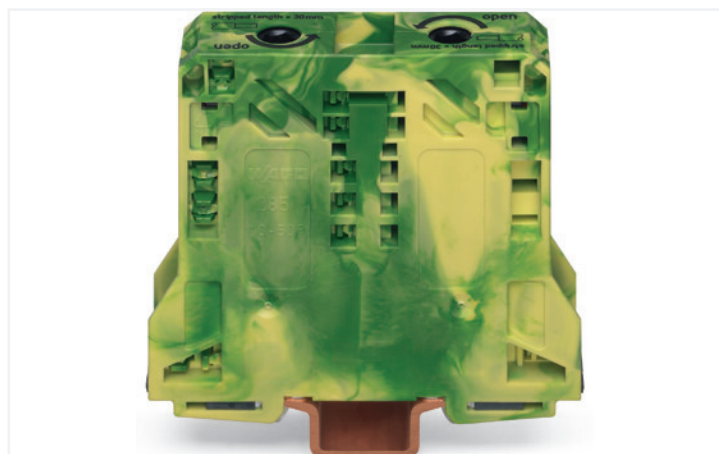
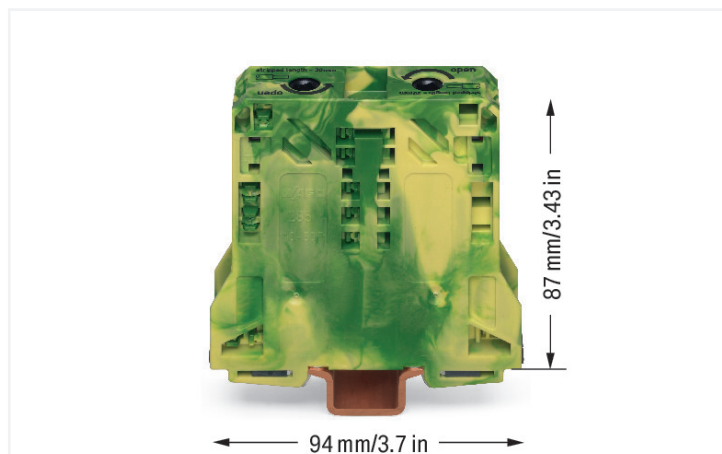


Data Sheet | Item Number: 285-157

2-conductor ground terminal block; 50 mm²; lateral marker slots; only for DIN 35 x 15 rail; 2.3 mm thick; copper; POWER CAGE CLAMP; 50,00 mm²; green-yellow

<https://www.wago.com/285-157>



Color:  green-yellow

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	50 mm²
Solid conductor	10 ... 50 mm² / 8 ... 1/0 AWG
Stranded conductor	10 ... 50 mm² / 8 ... 1/0 AWG
Fine-stranded conductor	10 ... 70 mm² / 8 ... 2/0 AWG
Fine-stranded conductor; with insulated ferrule	10 ... 50 mm² / 8 ... 1/0 AWG
Fine-stranded conductor; with uninsulated ferrule	10 ... 50 mm² / 8 ... 1/0 AWG
Strip length	30 mm / 1.18 inches
Wiring direction	Side-entry wiring

Physical data

Width	20 mm / 0.787 inches
Height	94 mm / 3.701 inches
Depth from upper-edge of DIN-rail	87 mm / 3.425 inches

Mechanical data

Mounting type	DIN-rail 35 x 15
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	1.986 MJ
Weight	186.5 g

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


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	PL
GTIN	4045454507435
Customs tariff number	85369010000

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
  			Approval	Standard	Certificate Name
Approval	Standard	Certificate Name	EU-Declaration of Confor-	-	-
CCA	EN 60947	NTR NL-7707	mity		
DEKRA Certification B.V.			WAGO GmbH & Co. KG		
CSA	C22.2 No. 158	154112	UK-Declaration of Confor-	-	-
DEKRA Certification B.V.			mity		
KEMA/KEUR	EN 60947	71-105562	WAGO GmbH & Co. KG		
DEKRA Certification B.V.					

Approvals for hazardous areas

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

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 285-157

↓

Documentation				
Bid Text				
285-157	19.02.2019	xml	3.13 KB	↓
285-157	04.01.2018	doc	23.50 KB	↓

CAD/CAE-Data

CAD data

2D/3D Models 285-157

↓

CAE data

EPLAN Data Portal 285-157

↓

WSCAD Universe 285-157

↓

ZUKEN Portal 285-157

↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Cover

1.1.1.1 Cover

Item No.: 285-441

Finger guard; touchproof cover protects unused conductor entries and jumper slots; for 50 mm² high-current tbs; 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				
				
<p>Item No.: 216-424 Ferrule; Sleeve for 35 mm² / AWG 2; unin- sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored</p>		<p>Item No.: 216-425 Ferrule; Sleeve for 50 mm² / AWG 1; unin- sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92</p>		
1.1.4 Installation				
1.1.4.1 Mounting accessories				
				
<p>Item No.: 285-448 Fixing element; for 50 mm² high-current terminal blocks; orange</p>		<p>Item No.: 249-197 Screwless end stop; 14 mm wide; for DIN- rail 35 x 15 and 35 x 7.5; gray</p>		
1.1.5 Jumper				
1.1.5.1 Jumper				
				
<p>Item No.: 285-450 Jumper; insulated; gray</p>				
1.1.6 Marking				
1.1.6.1 Group marker carrier				
				
<p>Item No.: 249-105 Group marker carrier; gray</p>				
1.1.6.2 Marker				
				
<p>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</p>		<p>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</p>		<p>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</p>
				
<p>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</p>		<p>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</p>		<p>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</p>
				
<p>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</p>		<p>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</p>		<p>Item No.: 793-501/000-006 WMB marking card; as card; not stretcha- ble; plain; snap-on type; blue</p>
				
				<p>Item No.: 793-501/000-007 WMB marking card; as card; not stretcha- ble; plain; snap-on type; gray</p>



1.1.6.2 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

1.1.6.3 Marker carrier



[Item No.: 285-442](#)
Adaptor; gray

1.1.7 Power tap

1.1.7.1 Power tap



[Item No.: 285-447](#)
Power tap; for 50 mm² high-current tbs; Module width 16 mm; gray

1.1.8 Protective warning marker

1.1.8.1 Cover



[Item No.: 285-440](#)
Protective warning marker; with high-voltage symbol, black; yellow



[Item No.: 285-449](#)
Protective warning marker; yellow

1.1.9 Tool

1.1.9.1 Operating tool

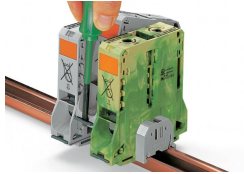


Item No.: 285-172
Allen wrench; with a partially insulated shaft; green

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

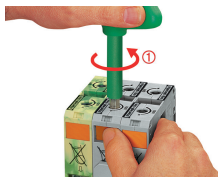


For the optimal clamping force:

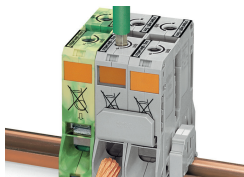
- Bend conductor
- Cut conductor to length (conductor end must be straight)
- Strip conductor



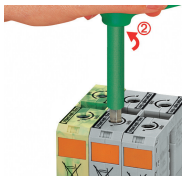
Always observe the on-unit printed strip length guide!



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.

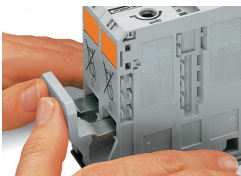


Conductor termination – step 2:
Insert a stripped conductor into the clamping unit until it hits the backstop. Hold in this position.

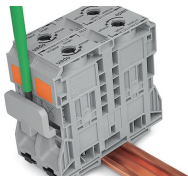


Conductor termination – step 3:
A short counter-clockwise rotation releases the tab. When unlocked, the T-wrench rotates clockwise, securely clamping the conductor.

Commoning

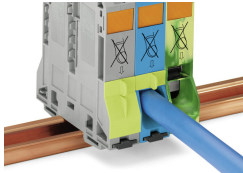


Commoning with an adjacent jumper: insert the jumper above the conductor entry hole – prior to conductor termination. The nominal cross-section remains unchanged.



Removing jumper via operating tool.

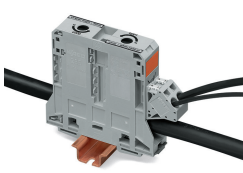
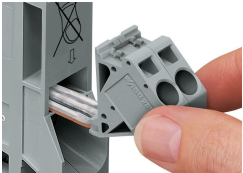
Cover



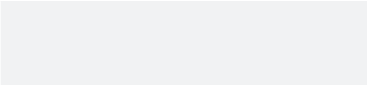
Protective warning marker may indicate:
Notice: Power is still on even after switching off the main switch!

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

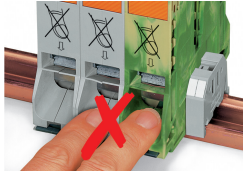
Power tap



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

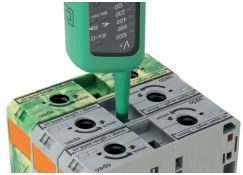


Security



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

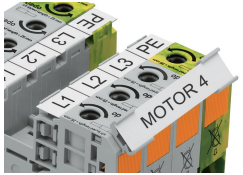
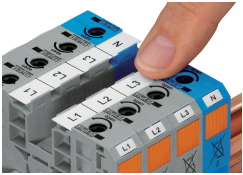
Testing



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

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 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