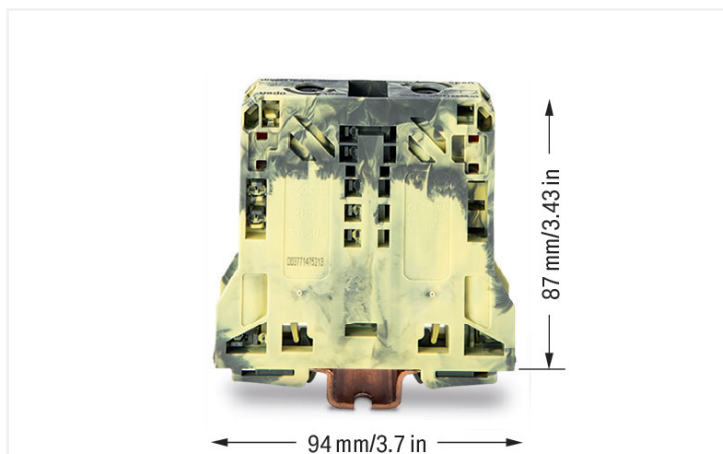


## Data Sheet | Item Number: 285-151

2-conductor through terminal block; 50 mm<sup>2</sup>; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 50,00 mm<sup>2</sup>; dark gray-yellow

<https://www.wago.com/285-151>



Color: ■ dark gray/yellow

High-current terminal block, 285 Series, dark gray/yellow

Connecting conductors is quick and easy with this through terminal block (item number 285-151). Strip lengths must be 32 mm when connecting conductors to this through terminal block. This product incorporates 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. Depending on the type of conductor, this through terminal block is designed for conductor cross sections ranging from 10 mm<sup>2</sup> to 50 mm<sup>2</sup>.

### Electrical data

Ratings per	IEC/EN 60947-7-1		
Oversoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	1000 V	-	-
Rated impulse withstand voltage	8 kV	-	-
Rated current	150 A	-	-

Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	600 V	600 V	-
Rated current	150 A	150 A	-

Approvals per	CSA 22.2 No 158		
Use group	B	C	D
Rated voltage	600 V	600 V	-
Rated current	150 A	-	-

Power Loss	
Power loss, per pole (potential)	4.725 W
Rated current $I_N$ for power loss specification	150 A
Resistance value for specified, current-dependent power loss	0.0001 $\Omega$

### 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	50 mm <sup>2</sup>
Solid conductor	10 ... 50 mm <sup>2</sup> / 8 ... 1/0 AWG
Stranded conductor	10 ... 50 mm <sup>2</sup> / 8 ... 1/0 AWG
Fine-stranded conductor	10 ... 70 mm <sup>2</sup> / 8 ... 2/0 AWG
Fine-stranded conductor; with insulated ferrule	10 ... 50 mm <sup>2</sup> / 8 ... 1/0 AWG
Fine-stranded conductor; with uninsulated ferrule	10 ... 50 mm <sup>2</sup> / 8 ... 1/0 AWG
Strip length	32 mm / 1.26 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-35 x 15 rail
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	dark gray/yellow
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	2.166 MJ
Weight	158.6 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	4055143500845
Customs tariff number	85369010000


Product Classification	
UNSPSC	39121410
eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 9.0	EC000897
ETIM 10.0	EC000897
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	Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7707	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CSA CSA Group	C22.2	1151144	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-105562			

### Approvals for marine applications

		
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	24-0152298-PDA

### Downloads

Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 285-151	<a href="#">↓</a>

## Documentation

Bid Text			
285-151	19.02.2019	xml 3.27 KB	<a href="#">↓</a>
285-151	04.01.2018	doc 23.50 KB	<a href="#">↓</a>

## CAD/CAE-Data

CAD data	
2D/3D Models 285-151	<a href="#">↓</a>

CAE data	
EPLAN Data Portal 285-151	<a href="#">↓</a>
ZUKEN Portal 285-151	<a href="#">↓</a>

## 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 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.: 855-501/150-000**

Current and voltage tap up to 50 mm<sup>2</sup>; Primary rated current: 150 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



**Item No.: 210-508**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored



**Item No.: 210-197**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored



**Item No.: 210-506**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored



**Item No.: 210-114**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

### 1.1.4 Ferrule

#### 1.1.4.1 Ferrule



**Item No.: 216-3427**

Ferrule; Sleeve for 25 mm<sup>2</sup> / AWG 4; un-insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 1/08.92

**Item No.: 216-3112**

Ferrule; Sleeve for 35 mm<sup>2</sup> / AWG 2; un-insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 1/08.92

**Item No.: 216-424**

Ferrule; Sleeve for 35 mm<sup>2</sup> / AWG 2; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

**Item No.: 216-3113**

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



**Item No.: 216-425**

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

### 1.1.5 Installation

#### 1.1.5.1 Mounting accessories



**Item No.: 285-448**

Fixing element; for 50 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.: 285-450**

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

1.1.7.2 Marker



**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

1.1.7.3 Marker carrier



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

1.1.8 Power tap

1.1.8.1 Power tap



**Item No.: 285-447**  
Power tap; for 50 mm<sup>2</sup> high-current tbs; Module width 16 mm; gray

1.1.9 Protective warning marker

1.1.9.1 Cover



**Item No.: 285-440**  
Protective warning marker; with high-voltage symbol, black; yellow

**Item No.: 285-449**  
Protective warning marker; yellow

### 1.1.10 Tool

#### 1.1.10.1 Operating tool



**Item No.: 285-172**

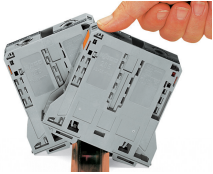
Allen wrench; with a partially insulated shaft; green

**Item No.: 285-173**

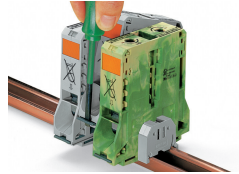
Allen wrench; with a partially insulated shaft; with anti-rotation protection; green

### Installation Notes

#### Installation



Snapping a terminal block onto DIN-rail (to the left or to the right).



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

### Conductor termination

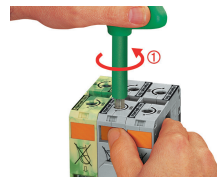


For the optimal clamping force:

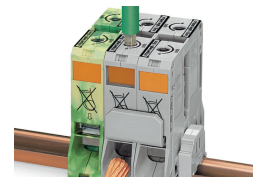
- Bend conductor
- Cut conductor to length (conductor end must be straight)
- Strip conductor



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.

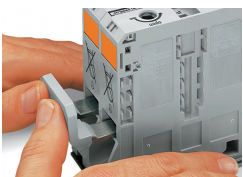


**Conductor termination – step 2:**  
Insert a stripped conductor into the clamping unit until it hits the backstop. Hold in this position.

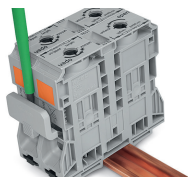


**Conductor termination – step 3:**  
A short counter-clockwise rotation releases the tab. When unlocked, the T-wrench rotates clockwise, securely clamping the conductor.

### Commoning

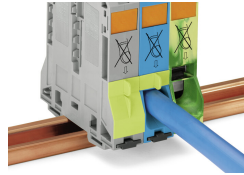
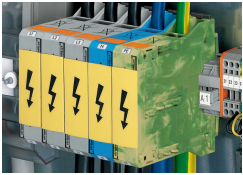


Commoning with an adjacent jumper: insert the jumper above the conductor entry hole – prior to conductor termination. The nominal cross-section remains unchanged.



Removing jumper via operating tool.

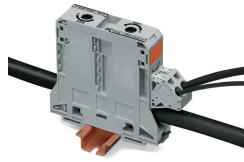
### Cover



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

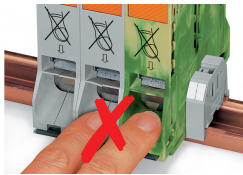
Yellow, detachable finger guards provide touch-proof safety by shielding jumper contact slots and/or unused conductor entries.

### Power tap



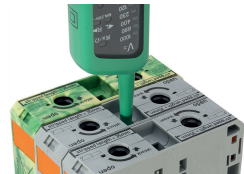
Easily and consistently tap directly into the power supply. Insert the unwired tap before opening the clamping unit.

### Security



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

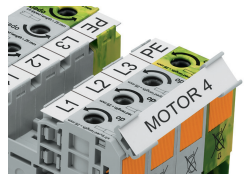
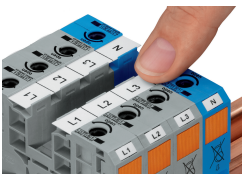
### Testing



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 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