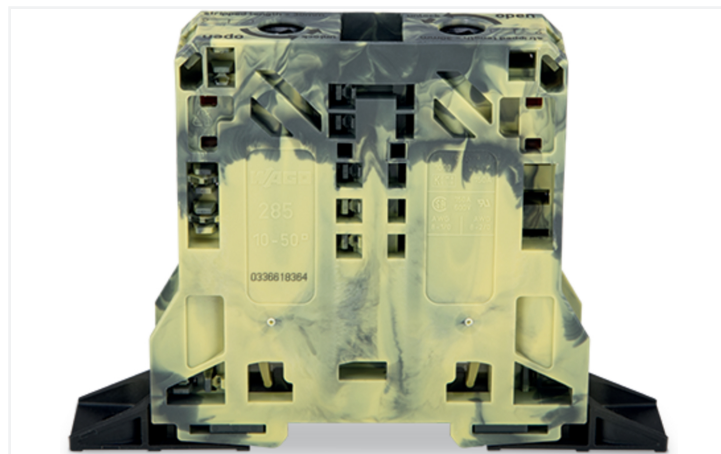
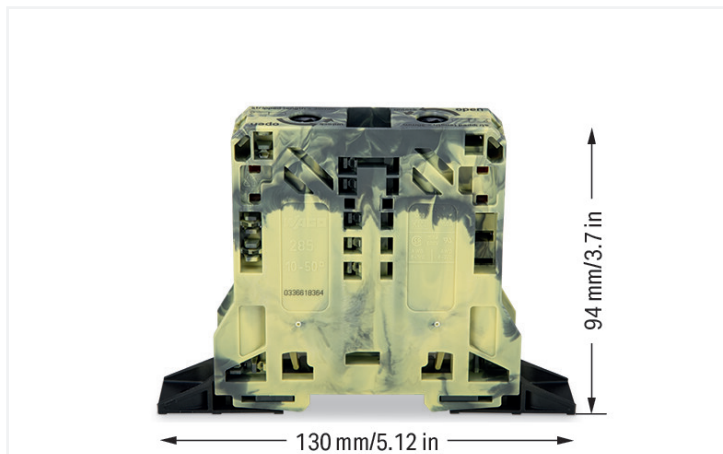


## Data Sheet | Item Number: 285-147

2-conductor through terminal block; 50 mm<sup>2</sup>; lateral marker slots; with fixing flanges; POWER CAGE CLAMP; 50,00 mm<sup>2</sup>; dark gray-yellow

<https://www.wago.com/285-147>



Color: ■ dark gray/yellow

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

This through terminal block (item number 285-147) is designed for simple and secure connections. Conductors can only be connected to this through terminal block if their strip length is 32 mm. This product features conductor terminals and utilizes POWER CAGE CLAMP. 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. This through terminal block is suitable 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 |     |    |
|---------------------------------|------------------|-----|----|
| Overvoltage 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 ... 70 mm <sup>2</sup> / 8 ... 2/0 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 from the surface | 94 mm / 3.7 inches    |
| Depth                   | 130 mm / 5.118 inches |

### Mechanical data

|               |                 |
|---------------|-----------------|
| Mounting type | Mounting flange |
| Mounting type | Panel mounting  |
| 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                          | 2.036 MJ   |
| Weight                             | 164.5 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                  | 4055143608336 |
| 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<br>DEKRA Certification B.V.  | EN 60947 | NTR NL-7707      | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| CSA<br>CSA Group   | C22.2    | 1151144          | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| KEMA/KEUR<br>DEKRA Certification B.V.  | EN 60947 | 71-105562        |  |          |                  |

### Approvals for marine applications

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

### Downloads

| Environmental Product Compliance            |                   |
|---|-------------------|
| Compliance Search                           |                   |
| Environmental Product<br>Compliance 285-147 | <a href="#">↓</a> |

## Documentation

| Bid Text |            |                 |                   |
|----------|------------|-----------------|-------------------|
| 285-147  | 19.02.2019 | xml<br>3.31 KB  | <a href="#">↓</a> |
| 285-147  | 04.01.2018 | doc<br>23.50 KB | <a href="#">↓</a> |

## CAD/CAE-Data

| CAD data                               | CAE data                                    |
|--|---|
| 2D/3D Models 285-147 <a href="#">↓</a> | EPLAN Data Portal 285-147 <a href="#">↓</a> |
|  | ZUKEN Portal 285-147 <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 Ferrule

##### 1.1.3.1 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

## 1.1.4 Installation

### 1.1.4.1 Mounting accessories



**Item No.: 285-448**

Fixing element; for 50 mm<sup>2</sup> high-current terminal blocks; orange

## 1.1.5 Jumper

### 1.1.5.1 Jumper



**Item No.: 285-450**

Jumper; insulated; gray

## 1.1.6 Marking

### 1.1.6.1 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



**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

### 1.1.6.2 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 mm<sup>2</sup> 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



Align and snap high-current, through terminal blocks together.



Optionally, insert block-to-block connector (285-448) into housing slot.

