# Data Sheet | Item Number: 285-148

Three phase set; with 50 mm² high-current tbs; with fixing flanges; copper; 50 mm²; POWER CAGE CLAMP; 50,00 mm²; multicoloured

https://www.wago.com/285-148



Color: multi-colored

High-current terminal block, 285 Series, multi-colored

Our three-phase set (item number 285-148) ensures effortless electrical installations. Conductors should only be connected to this three-phase set 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. 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 three-phase set is suitable for conductor cross sections ranging from 10 mm² to 50 mm².

## This item includes:



Item No.: 285-141 — 3

2-conductor through terminal block; 50 mm²; lateral marker slots; with fixing flanges; POWER CAGE CLAMP; 50,00 mm²; gray



Item No.: 285-144 — 1

2-conductor through terminal block; 50 mm²; lateral marker slots; with fixing flanges; POWER CAGE CLAMP; 50,00 mm²; blue



Item No.: 285-147 — 1

2-conductor through terminal block; 50 mm²; lateral marker slots; with fixing flanges; POWER CAGE CLAMP; 50,00 mm²; dark gray-yellow

## 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 | - | - |

| General information | |
|---|---|
| Wiring direction | Side-entry wiring |

## Connection Data

| | |
|---|---|
| Clamping units | 10 |
| Total number of potentials | 5 |
| Number of levels | 1 |

### 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 | 32 mm / 1.26 inches |
| Wiring direction | Side-entry wiring |

## Physical data

| | |
|---|---|
| Width | 100 mm / 3.937 inches |
| Height from the surface | 94 mm / 3.7 inches |
| Depth | 130 mm / 5.118 inches |

## Mechanical data

| | |
|---|---|
| Design | horizontal type |
| Mounting type | Mounting flange |
| Mounting type | Panel mounting |
| Marking level | Side marking |

## Material data

| | |
|---|---|
| Note (material data) | Information on material specifications can be found here |
| Color | multi-colored |
| Material group | I |
| Insulation material (main housing) | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 10.022 MJ |
| Halogen-free | Yes |
| Weight | 822.9 g |

## Environmental requirements

| | |
|---|---|
| Processing temperature | -35 … +85 °C |
| Continuous operating temperature | -60 … +105 °C |


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## Commercial data

| | |
|---|---|
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | PL |
| GTIN | 4055143656993 |
| Customs tariff number | 85369010000 |

## Product Classification

| | |
|---|---|
| UNSPSC | 39121410 |
| eCl@ss 10.0 | 27-14-11-06 |
| eCl@ss 9.0 | 27-14-11-06 |
| ETIM 9.0 | EC001284 |
| ETIM 10.0 | EC001284 |
| ECCN | NO US CLASSIFICATION |

## Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant,No Exemption |

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| CCA<br>DEKRA Certification B.V. | EN 60947 | NTR NL-7707 |
| CSA<br>CSA Group | C22.2 | 1151144 |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947 | 71-105562 |
| UL<br>Underwriters Laboratories Inc. | UL 1059 | 20190731-E45172 |

### Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|---|---|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |

### Approvals for marine applications

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


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## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 285-148

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 285-148 | 19.02.2019 | xml 3.36 KB |
| 285-148 | 04.01.2018 | doc 25.50 KB |

### CAD/CAE-Data

**CAD data**

2D/3D Models 285-148

## 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 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 mm²; Primary rated current: 150 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 0.5; fused

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## 1.1.3 Ferrule

### 1.1.3.1 Ferrule



Item No.: 216-3427
Ferrule; Sleeve for 25 mm² / AWG 4; uninsulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 1/08.92



Item No.: 216-3112
Ferrule; Sleeve for 35 mm² / AWG 2; uninsulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 1/08.92



Item No.: 216-424
Ferrule; Sleeve for 35 mm² / AWG 2; uninsulated; 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 mm² / AWG 1; uninsulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 1/08.92



Item No.: 216-425
Ferrule; Sleeve for 50 mm² / AWG 1; uninsulated; 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 mm² 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.: 793-5501/000-007
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


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### 1.1.6.1 Marker



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 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