

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 | | |
|---------------------------------|------------------|-----|----|
| 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 | - | - |

| 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 mm ² |
| Solid conductor | 10 ... 50 mm ² / 8 ... 1/0 AWG |
| Stranded conductor | 10 ... 50 mm ² / 8 ... 1/0 AWG |
| Fine-stranded conductor | 10 ... 70 mm ² / 8 ... 2/0 AWG |
| Fine-stranded conductor; with insulated ferrule | 10 ... 50 mm ² / 8 ... 1/0 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 10 ... 50 mm ² / 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 | 9.806 MJ |
| Halogen-free | Yes |
| Weight | 822.9 g |

Environmental requirements

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

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 DEKRA Certification B.V. | EN 60947 | NTR NL-7707 |
| CSA CSA Group | C22.2 | 1151144 |
| 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 | 24-0152298-PDA |

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 | ↓ |

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

1.1.3 Ferrule

1.1.3.1 Ferrule



Item No.: 216-3427
 Ferrule; Sleeve for 25 mm² / 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 mm² / 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 mm² / 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 mm² / 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 mm² / 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 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



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