

Color:  multi-colored

## Three-phase set, 285 Series, power cage clamp

This three-phase set (item number 285-148) is designed for hassle-free electrical installations. Conductors can only be connected to this three-phase set if their strip length is 30 mm. This product incorporates conductor terminals and utilizes POWER CAGE CLAMP. Our POWER CAGE CLAMP connection technology is the perfect choice for securely connecting large conductor cross-sections. This universal connector is reliable and maintenance-free. Unlike other connection methods, you do not need to crimp the ferrule or use a torque wrench. This makes it nice and easy to use. Depending on the type of conductor, this three-phase set is designed for conductor cross sections ranging from 10 mm<sup>2</sup> to 50 mm<sup>2</sup>. It has one level. Five potentials can connect using the ten clamping points. The multi-colored housing is made of polyamide (PA66) for insulation.

## This item includes:

[Item No.: 285-141](#)

3

[Item No.: 285-144](#)

1

[Item No.: 285-147](#)

1

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>; gray

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>; blue

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

## Electrical data

Ratings per			IEC/EN 60947-7-1			Approvals per			UL 1059		
Overvoltage category	III	III	II			Use group	B	C	D		
Pollution degree	3	2	2			Rated voltage	600 V	600 V	-		
Nominal voltage	1000 V	-	-			Rated current	150 A	150 A	-		
Rated surge voltage	8 kV	-	-								
Rated current	150 A	-	-								

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

**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 <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	30 mm / 1.18 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 Panel mounting
Marking level	Side marking

**Material data**

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	multi-colored
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	10.342 MJ
Halogen-free	Yes
Weight	822.9 g

**Environmental requirements**

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

**Commercial data**

eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 9.0	EC001284
ETIM 8.0	EC001284
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	PL
GTIN	4055143656993
Customs tariff number	85369010000

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
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**Approvals / Certificates****General approvals**

Approval	Standard	Certificate Name
CCA	EN 60947	NTR NL-7707
DEKRA Certification B.V.		
CSA	C22.2,C22.2 No. 158	154112
DEKRA Certification B.V.		
KEMA/KEUR	EN 60947	71-105562
DEKRA Certification B.V.		
UL	UL 1059	E45172
Underwriters Laboratories Inc.		

**Declarations of conformity and manufacturer's declarations**

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

**Approvals for marine applications**

Approval	Standard	Certificate Name
ABS	EN 60947	20-HG1941090-PDA
American Bureau of Shipping		

**Downloads****Environmental Product Compliance**[Compliance Search](#)[Environmental Product Compliance 285-148](#)

## Documentation

### Additional Information

Technical Section	pdf 2246.92 KB	
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### 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 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.: 216-424**

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

**Item No.: 216-425**

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

#### 1.1.4 Jumper

##### 1.1.4.1 Jumper

**Item No.: 285-450**

Jumper; insulated; gray

## 1.1.5 Marking

## 1.1.5.1 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.: 793-5501/000-012**

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.: 793-5501/000-007**

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.: 793-5501/000-005**

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.: 793-5501/000-023**

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.: 793-5501/000-002**

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.: 793-501/000-023**

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.: 793-501/000-027**

WMB marking card; as card; not stretchable; 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.: 2009-115/000-05**

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



## 1.1.5.2 Marker carrier

**Item No.: 285-442**

Adaptor; gray

## 1.1.6 Power tap



[Item No.: 285-447](#)

Power tap; for 50 mm<sup>2</sup> high-current tbs;  
Module width 16 mm; gray

## 1.1.7 Protective warning marker

### 1.1.7.1 Cover



[Item No.: 285-440](#)

Protective warning marker; with high-voltage symbol, black; yellow

[Item No.: 285-449](#)

Protective warning marker; yellow

## 1.1.8 Tool

### 1.1.8.1 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