

## Data sheet | Item number: 285-950

2-conductor through terminal block; 50 mm<sup>2</sup>; suitable for Ex e II applications; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 50,00 mm<sup>2</sup>; light gray

[www.wago.com/285-950](http://www.wago.com/285-950)



### Data

#### Electrical data

#### Ratings per IEC/EN

Ratings per

IEC/EN 60947-7-1

#### Ratings per UL 1059

Approvals per

UL 1059

Rated voltage UL (Use Group B)

600 V

Rated current UL (Use Group B)

150 A

Rated voltage UL (Use Group C)

600 V

Rated current UL (Use Group C)

150 A

Subject to changes. Please also observe the further product documentation!

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## Ratings per CSA

Approvals per	CSA 22.2 No 158
Rated voltage CSA (Use Group B)	600 V
Rated current CSA (Use Group B)	150 A
Rated voltage CSA (Use Group D)	600 V
Rated current CSA (Use Group D)	150 A

## Ex information

Reference hazardous areas	See "Downloads – Documentation – Additional Information: Technical Section; Technical Explanations"
Ratings per	ATEX: PTB 98 ATEX 3134 U (Ex eb IIC Gb)
Rated voltage EN (Ex e II)	880 V
Rated current (Ex e II)	134 A

## Power loss

Power loss, per pole (potential)	3.771 W
Rated current $I_N$ for specified power loss	134 A
Resistance value for specified, current-dependent power loss	0 $\Omega$

## Connection data

Connection points	2
Total number of potentials	1
Number of levels	1
Number of jumper slots	2

## Connection 1

Connection technology	POWER CAGE CLAMP
Actuation type	Operating tool
Connectable conductor materials	Copper
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	30 mm / 1.18 inches
Wiring direction	Side-entry wiring

Subject to changes. Please also observe the further product documentation!



## 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-rail 35 x 15; 2.3 mm thick; copper
Mounting (note)	only suitable for DIN 35 x 15 rail
Marking level	Side marking

## Material Data

Note (material data)	Information on material specifications can be found here
Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	2.168 MJ
Weight	158.8 g

## Environmental requirements

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

## Commercial data

eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 8.0	EC000897
ETIM 7.0	EC000897
PU (SPU)	5 pcs
Packaging type	box
Country of origin	PL
GTIN	4055143418522
Customs tariff number	85369010000

Subject to changes. Please also observe the further product documentation!

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## Environmental Product Compliance

RoHS Compliance Status



Compliant, No Exemption

## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	NTR NL-7707
	CCC CNEX	GB/T 3836.3	2020312313000177 (Ex eb IIC Gb, Ex eb I Mb)
	CSA DEKRA Certification B.V.	C22.2 No. 158	154112
	KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-105562
	UL Underwriters Laboratories Inc.	UL 1059	E45172

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

### Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
	AEx	-	E185892 (AEx eb II C)

Subject to changes. Please also observe the further product documentation!

Underwriters Laboratories Inc.

resp. Ex eb II C)





	ATEX Physikalisch Technische Bundesanstalt	EN 60079-0	PTB 98 ATEX 3134 U (II 2 G Ex eb IIC Gb or I M 2 Ex eb I Mb)
	CCC CNEX	GB/T 3836.3	2020312313000177 (Ex eb IIC Gb, Ex eb I Mb)
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	RU C-DE.AM02.B. 00127/19 (Ex e IIC Gb U)
	IECEX Physikalisch Technische Bundesanstalt	IEC 60079-0	IECEX PTB 16.0001U (Ex eb IIC Gb or Ex eb I Mb)

## Optional accessories





### Mounting

#### Mounting accessories






	<b>Item no.: 249-197</b> Screwless end stop; 14 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray	<a href="http://www.wago.com/249-197">www.wago.com/249-197</a>
	<b>Item no.: 285-448</b> Fixing element; for 50 mm <sup>2</sup> high-current terminal blocks; orange	<a href="http://www.wago.com/285-448">www.wago.com/285-448</a>

### Ferrule









#### Ferrule

	<b>Item no.: 216-109</b> Ferrule; Sleeve for 10 mm <sup>2</sup> / AWG 8; uninsulated; electro-tin plated	<a href="http://www.wago.com/216-109">www.wago.com/216-109</a>
	<b>Item no.: 216-110</b> Ferrule; Sleeve for 16 mm <sup>2</sup> / AWG 6; uninsulated; electro-tin plated; brown metallic	<a href="http://www.wago.com/216-110">www.wago.com/216-110</a>
	<b>Item no.: 216-209</b> Ferrule; Sleeve for 10 mm <sup>2</sup> / AWG 8; insulated; electro-tin plated; red	<a href="http://www.wago.com/216-209">www.wago.com/216-209</a>
	<b>Item no.: 216-210</b> Ferrule; Sleeve for 16 mm <sup>2</sup> / AWG 6; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	<a href="http://www.wago.com/216-210">www.wago.com/216-210</a>

Subject to changes. Please also observe the further product documentation!

	<b>Item no.: 216-289</b> Ferrule; Sleeve for 10 mm <sup>2</sup> / AWG 8; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	<a href="http://www.wago.com/216-289">www.wago.com/216-289</a>
	<b>Item no.: 216-414</b> 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	<a href="http://www.wago.com/216-414">www.wago.com/216-414</a>
	<b>Item no.: 216-425</b> Ferrule; Sleeve for 50 mm <sup>2</sup> / AWG 1; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	<a href="http://www.wago.com/216-425">www.wago.com/216-425</a>
	<b>Item no.: 216-424</b> 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	<a href="http://www.wago.com/216-424">www.wago.com/216-424</a>
	<b>Item no.: 216-435</b> Ferrule; Sleeve for 50 mm <sup>2</sup> / AWG 1; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92	<a href="http://www.wago.com/216-435">www.wago.com/216-435</a>

**Marking accessories**

<b>Marker carrier</b>		
	<b>Item no.: 285-442</b> Adaptor; gray	<a href="http://www.wago.com/285-442">www.wago.com/285-442</a>
<b>Marker</b>		
	<b>Item no.: 2009-115/000-002</b> WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow	<a href="http://www.wago.com/2009-115/000-002">www.wago.com/2009-115/000-002</a>
	<b>Item no.: 2009-115/000-007</b> WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray	<a href="http://www.wago.com/2009-115/000-007">www.wago.com/2009-115/000-007</a>
	<b>Item no.: 2009-115/000-017</b> WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green	<a href="http://www.wago.com/2009-115/000-017">www.wago.com/2009-115/000-017</a>
	<b>Item no.: 2009-115/000-023</b> WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green	<a href="http://www.wago.com/2009-115/000-023">www.wago.com/2009-115/000-023</a>
	<b>Item no.: 2009-115/000-024</b> WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet	<a href="http://www.wago.com/2009-115/000-024">www.wago.com/2009-115/000-024</a>
	<b>Item no.: 2009-115</b> WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="http://www.wago.com/2009-115">www.wago.com/2009-115</a>
	<b>Item no.: 793-5501/000-007</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray	<a href="http://www.wago.com/793-5501/000-007">www.wago.com/793-5501/000-007</a>

Subject to changes. Please also observe the further product documentation!



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

[www.wago.com/793-5501/000-012](http://www.wago.com/793-5501/000-012)



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

[www.wago.com/793-5501/000-014](http://www.wago.com/793-5501/000-014)



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

[www.wago.com/793-5501/000-017](http://www.wago.com/793-5501/000-017)



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

[www.wago.com/793-5501/000-023](http://www.wago.com/793-5501/000-023)



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

[www.wago.com/793-5501/000-024](http://www.wago.com/793-5501/000-024)



Item no.: 793-501/000-002

WMB marking card; as card; not stretchable; plain; snap-on type; yellow

[www.wago.com/793-501/000-002](http://www.wago.com/793-501/000-002)



Item no.: 793-501/000-007

WMB marking card; as card; not stretchable; plain; snap-on type; gray

[www.wago.com/793-501/000-007](http://www.wago.com/793-501/000-007)



Item no.: 793-501/000-017

WMB marking card; as card; not stretchable; plain; snap-on type; light green

[www.wago.com/793-501/000-017](http://www.wago.com/793-501/000-017)



Item no.: 793-501/000-012

WMB marking card; as card; not stretchable; plain; snap-on type; orange

[www.wago.com/793-501/000-012](http://www.wago.com/793-501/000-012)



Item no.: 793-501/000-023

WMB marking card; as card; not stretchable; plain; snap-on type; green

[www.wago.com/793-501/000-023](http://www.wago.com/793-501/000-023)

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**Item no.: 793-501/000-006**  
WMB marking card; as card; not stretchable; plain; snap-on type; blue

[www.wago.com/793-501/000-006](http://www.wago.com/793-501/000-006)



**Item no.: 793-501/000-005**  
WMB marking card; as card; not stretchable; plain; snap-on type; red

[www.wago.com/793-501/000-005](http://www.wago.com/793-501/000-005)



**Item no.: 793-501**  
WMB marking card; as card; not stretchable; plain; snap-on type; white

[www.wago.com/793-501](http://www.wago.com/793-501)



**Item no.: 793-501/000-024**  
WMB marking card; as card; not stretchable; plain; snap-on type; violet

[www.wago.com/793-501/000-024](http://www.wago.com/793-501/000-024)



**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

[www.wago.com/793-5501/000-005](http://www.wago.com/793-5501/000-005)



**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

[www.wago.com/793-5501/000-002](http://www.wago.com/793-5501/000-002)



**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

[www.wago.com/793-5501/000-006](http://www.wago.com/793-5501/000-006)



**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

[www.wago.com/793-5501](http://www.wago.com/793-5501)



**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

[www.wago.com/2009-115/000-012](http://www.wago.com/2009-115/000-012)



**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

[www.wago.com/2009-115/000-006](http://www.wago.com/2009-115/000-006)



**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

[www.wago.com/2009-115/000-005](http://www.wago.com/2009-115/000-005)

Group marker carrier

Subject to changes. Please also observe the further product documentation!





**Item no.: 249-105**  
Group marker carrier; gray

**Carrier rail**

Mounting accessories



**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

[www.wago.com/210-197](http://www.wago.com/210-197)



**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

[www.wago.com/210-198](http://www.wago.com/210-198)



**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

[www.wago.com/210-506](http://www.wago.com/210-506)



**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

[www.wago.com/210-508](http://www.wago.com/210-508)



**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

[www.wago.com/210-114](http://www.wago.com/210-114)

**Cover**

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

[www.wago.com/285-441](http://www.wago.com/285-441)

**Voltage tap**

Power tap



**Item no.: 285-447**  
Power tap; for 50 mm<sup>2</sup> high-current tbs; Module width 16 mm; 6,00 mm<sup>2</sup>; gray

[www.wago.com/285-447](http://www.wago.com/285-447)

**Tool**

Operating tool



**Item no.: 285-172**  
Allen wrench; with a partially insulated shaft; green

[www.wago.com/285-172](http://www.wago.com/285-172)



**Item no.: 285-173**  
Allen wrench; with a partially insulated shaft; with anti-rotation protection; green

[www.wago.com/285-173](http://www.wago.com/285-173)

**Protective warning marker**

Cover

Subject to changes. Please also observe the further product documentation!



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

[www.wago.com/285-440](http://www.wago.com/285-440)



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

[www.wago.com/285-449](http://www.wago.com/285-449)

## Jumpers

### Jumper



**Item no.: 285-450**  
Jumper; insulated; gray

[www.wago.com/285-450](http://www.wago.com/285-450)

## Downloads

### Documentation

#### Bid Text

285-950 X81 - Datei	2019 Feb 19	xml 3.3 kB	Download
285-950 doc - Datei	2018 Jan 4	doc 24.1 kB	Download

#### Additional Information

Technical Section Technical explanations		pdf 2.2 MB	Download
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## CAD/CAE-Data

### CAE data

EPLAN Data Portal 285-950		URL	Download
ZUKEN Portal 285-950		URL	Download

### CAD data

2D/3D Models 285-950		URL	Download
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## Environmental Product Compliance

### Compliance Search

Subject to changes. Please also observe the further product documentation!

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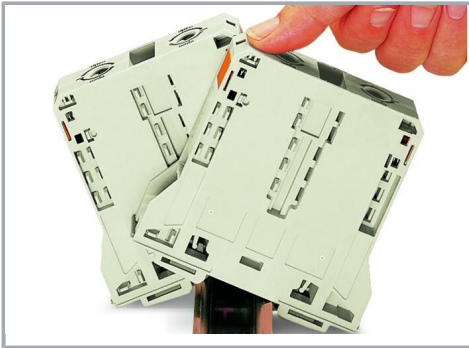
Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.

Environmental Product Compliance 285-950

2-conductor through terminal block; 50 mm<sup>2</sup>; suitable for Ex e II applications; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 50,00 mm<sup>2</sup>; light gray

## Installation Notes

### Installation

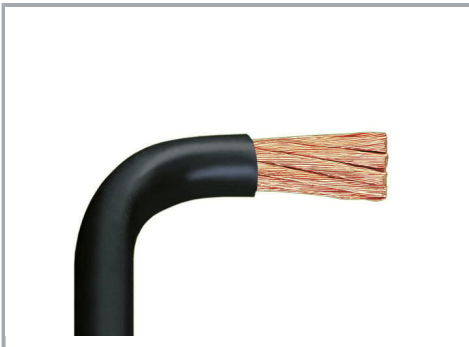


Snapping a terminal block onto DIN-rail (to the left or to the right).



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

### Conductor termination



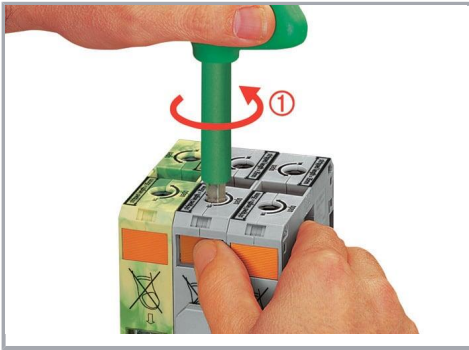
For the optimal clamping force:

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



Always observe the on-unit printed strip length guide!

Subject to changes. Please also observe the further product documentation!



#### 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.



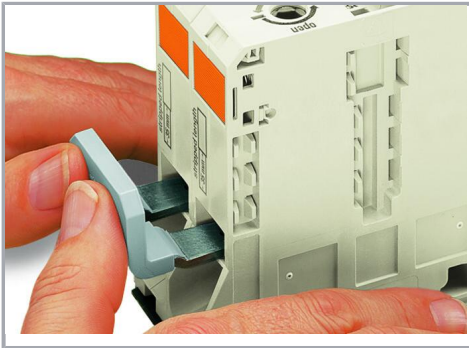
Insert a stripped conductor into the clamping unit until it hits the backstop. Hold in this position.



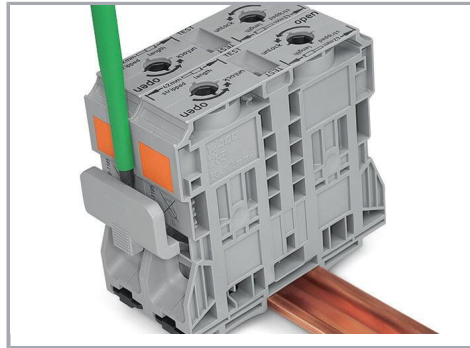
A short counter-clockwise rotation releases the tab. When unlocked, the T-wrench rotates clockwise, securely clamping the conductor.

#### Commoning

Subject to changes. Please also observe the further product documentation!

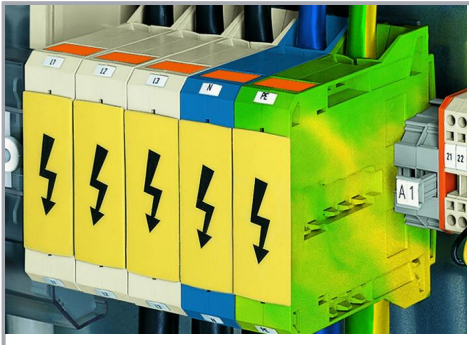


Commoning with an adjacent jumper: insert the jumper above the conductor entry hole – prior to conductor termination. The nominal cross-section remains unchanged.



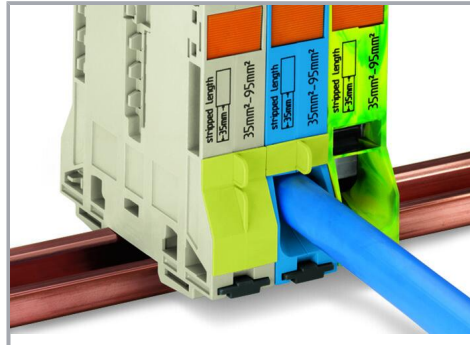
Removing jumper via operating tool.

### Cover



Protective warning marker may indicate:

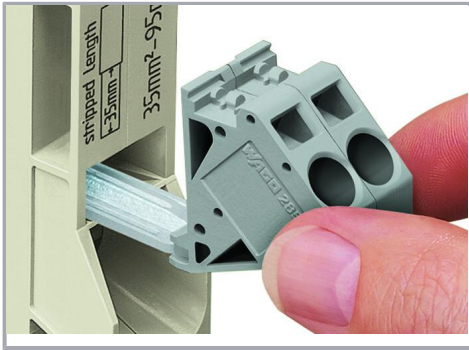
Notice: Power is still on even after switching off the main switch!



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

### Power tap

Subject to changes. Please also observe the further product documentation!



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

Subject to changes. Please also observe the further product documentation!

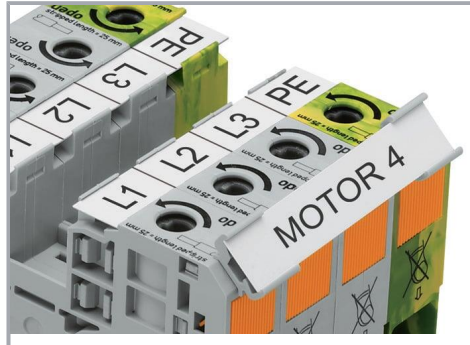


Testing via touch-proof 4 mm Ø test plugs (not available from WAGO, but offered by industry suppliers such as, Multi-Contact Deutschland GmbH).

#### Testing

Voltage measurements can be performed, e.g., using a 2-pole voltage tester (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 (285-442) for marking strips (2009-110) or 2 WMB markers for 285-13x, 285-15x and 285-19x Terminal Blocks

Subject to changes. Please also observe the further product documentation!