

**Data sheet | Item number: 285-159**

Three phase set; with 50 mm<sup>2</sup> high-current tbs; only for DIN 35 x 15 rail;  
copper; 50 mm<sup>2</sup>; POWER CAGE CLAMP; 50,00 mm<sup>2</sup>; gray/blue/green-yellow

[www.wago.com/285-159](http://www.wago.com/285-159)



**Data**  
**Electrical data**

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

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### Ratings per IEC/EN

Ratings per	IEC/EN 60947-7-1
Nominal voltage (III/3)	1000 V
Rated impulse voltage (III/3)	8 kV
Rated current	150 A

### Ratings per UL

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

### 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 C)	600 V
Rated current CSA (Use Group D)	150 A

### Connection data

Connection points	10
Total number of potentials	5
Number of levels	1

### Connection 1

Connection technology	POWER CAGE CLAMP
Actuation type	Operating tool
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

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Strip length	30 mm / 1.18 inches
Wiring direction	Side-entry wiring

### Physical data

Width	100 mm / 3.937 inches
Height	94 mm / 3.701 inches
Depth from upper-edge of DIN-rail	87 mm / 3.425 inches

### Mechanical Data

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

### Material Data

Note (material data)	Information on material specifications can be found here
Color	gray/blue/green-yellow
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	10.808 MJ
Halogen-free	Yes
Weight	812.4 g

### Environmental requirements

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

### Commercial data

Product Group	1 (Rail Mounted Terminal Blocks)
eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 8.0	EC001284
ETIM 7.0	EC001284
PU (SPU)	1 pcs

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Packaging type	box
Country of origin	DE
GTIN	4045454584269
Customs tariff number	85369010000

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 60947	NTR NL-7707
	<b>CSA</b> DEKRA Certification B.V.	C22.2	154112
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 60947	71-105562
	<b>UL</b> Underwriters Laboratories Inc.	UL 1059	E45172

### Declarations of conformity and manufacturer's declarations

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

### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	EN 60947	20-HG1941090-PDA

## Optional accessories

<b>Ferrule</b>
Ferrule

Item no.: 216-109

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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>
<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>
<b>Jumpers</b>	
Jumper	
<b>Item no.: 285-450</b> Jumper; insulated; gray	<a href="http://www.wago.com/285-450">www.wago.com/285-450</a>
<b>Tool</b>	
Operating tool	
<b>Item no.: 285-172</b> Allen wrench; with a partially insulated shaft; green	<a href="http://www.wago.com/285-172">www.wago.com/285-172</a>
<b>Item no.: 285-173</b> Allen wrench; with a partially insulated shaft; with anti-rotation protection; green	<a href="http://www.wago.com/285-173">www.wago.com/285-173</a>
<b>Cover</b>	
Cover	
<b>Item no.: 285-441</b> Finger guard; touchproof cover protects unused conductor entries and jumper slots; for 50 mm <sup>2</sup> high-current tbs; yellow	<a href="http://www.wago.com/285-441">www.wago.com/285-441</a>
<b>Mounting</b>	
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>

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



## 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)

## Carrier rail

### Mounting accessories

**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)

## Marking accessories

### Marker carrier

**Item no.: 285-442**

Adaptor; gray

[www.wago.com/285-442](http://www.wago.com/285-442)

### Marker

**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

[www.wago.com/2009-115/000-002](http://www.wago.com/2009-115/000-002)
**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

[www.wago.com/2009-115/000-007](http://www.wago.com/2009-115/000-007)
**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

[www.wago.com/2009-115/000-017](http://www.wago.com/2009-115/000-017)
**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

[www.wago.com/2009-115/000-023](http://www.wago.com/2009-115/000-023)
**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

[www.wago.com/2009-115/000-024](http://www.wago.com/2009-115/000-024)
**Item no.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

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

[www.wago.com/793-5501/000-007](http://www.wago.com/793-5501/000-007)
**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.: 793-5501/000-017**

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)

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<p><b>Item no.: 793-5501/000-023</b>                  WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green</p>	<p><a href="http://www.wago.com/793-5501/000-023">www.wago.com/793-5501/000-023</a></p>
<p><b>Item no.: 793-5501/000-024</b>                  WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet</p>	<p><a href="http://www.wago.com/793-5501/000-024">www.wago.com/793-5501/000-024</a></p>
<p><b>Item no.: 793-501/000-002</b>                  WMB marking card; as card; not stretchable; plain; snap-on type; yellow</p>	<p><a href="http://www.wago.com/793-501/000-002">www.wago.com/793-501/000-002</a></p>
<p><b>Item no.: 793-501/000-007</b>                  WMB marking card; as card; not stretchable; plain; snap-on type; gray</p>	<p><a href="http://www.wago.com/793-501/000-007">www.wago.com/793-501/000-007</a></p>
<p><b>Item no.: 793-501/000-017</b>                  WMB marking card; as card; not stretchable; plain; snap-on type; light green</p>	<p><a href="http://www.wago.com/793-501/000-017">www.wago.com/793-501/000-017</a></p>
<p><b>Item no.: 793-501/000-012</b>                  WMB marking card; as card; not stretchable; plain; snap-on type; orange</p>	<p><a href="http://www.wago.com/793-501/000-012">www.wago.com/793-501/000-012</a></p>
<p><b>Item no.: 793-501/000-023</b>                  WMB marking card; as card; not stretchable; plain; snap-on type; green</p>	<p><a href="http://www.wago.com/793-501/000-023">www.wago.com/793-501/000-023</a></p>
<p><b>Item no.: 793-501/000-006</b>                  WMB marking card; as card; not stretchable; plain; snap-on type; blue</p>	<p><a href="http://www.wago.com/793-501/000-006">www.wago.com/793-501/000-006</a></p>
<p><b>Item no.: 793-501/000-005</b>                  WMB marking card; as card; not stretchable; plain; snap-on type; red</p>	<p><a href="http://www.wago.com/793-501/000-005">www.wago.com/793-501/000-005</a></p>
<p><b>Item no.: 793-501</b>                  WMB marking card; as card; not stretchable; plain; snap-on type; white</p>	<p><a href="http://www.wago.com/793-501">www.wago.com/793-501</a></p>
<p><b>Item no.: 793-501/000-024</b>                  WMB marking card; as card; not stretchable; plain; snap-on type; violet</p>	<p><a href="http://www.wago.com/793-501/000-024">www.wago.com/793-501/000-024</a></p>
<p><b>Item no.: 793-5501/000-005</b>                  WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red</p>	<p><a href="http://www.wago.com/793-5501/000-005">www.wago.com/793-5501/000-005</a></p>
<p><b>Item no.: 793-5501/000-002</b>                  WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow</p>	<p><a href="http://www.wago.com/793-5501/000-002">www.wago.com/793-5501/000-002</a></p>
<p><b>Item no.: 793-5501/000-006</b>                  WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue</p>	<p><a href="http://www.wago.com/793-5501/000-006">www.wago.com/793-5501/000-006</a></p>

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<b>Item no.: 793-5501</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="http://www.wago.com/793-5501">www.wago.com/793-5501</a>
<b>Item no.: 2009-115/000-012</b> WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange	<a href="http://www.wago.com/2009-115/000-012">www.wago.com/2009-115/000-012</a>
<b>Item no.: 2009-115/000-006</b> WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue	<a href="http://www.wago.com/2009-115/000-006">www.wago.com/2009-115/000-006</a>
Group marker carrier	
<b>Item no.: 249-105</b> Group marker carrier; gray	<a href="http://www.wago.com/249-105">www.wago.com/249-105</a>
<b>Protective warning marker</b>	
Cover	
<b>Item no.: 285-440</b> Protective warning marker; with high-voltage symbol, black; yellow	<a href="http://www.wago.com/285-440">www.wago.com/285-440</a>
<b>Item no.: 285-449</b> Protective warning marker; yellow	<a href="http://www.wago.com/285-449">www.wago.com/285-449</a>

## Downloads

### Documentation

#### Bid Text

285-159 X81 - Datei	2019 年2月19日	xml 3.4 kB	Download
285-159 doc - Datei	2018 年1月4日	doc 25.1 kB	Download

#### Additional Information

		pdf 2.3 MB	Download
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## CAD/CAE-Data

### CAE data

ZUKEN Portal 285-159		URL	Download
WSCAD Universe 285-159		URL	Download

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EPLAN Data Portal 285-159

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#### CAD data

2D/3D Models 285-159

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### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 285-159

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### Installation Notes

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