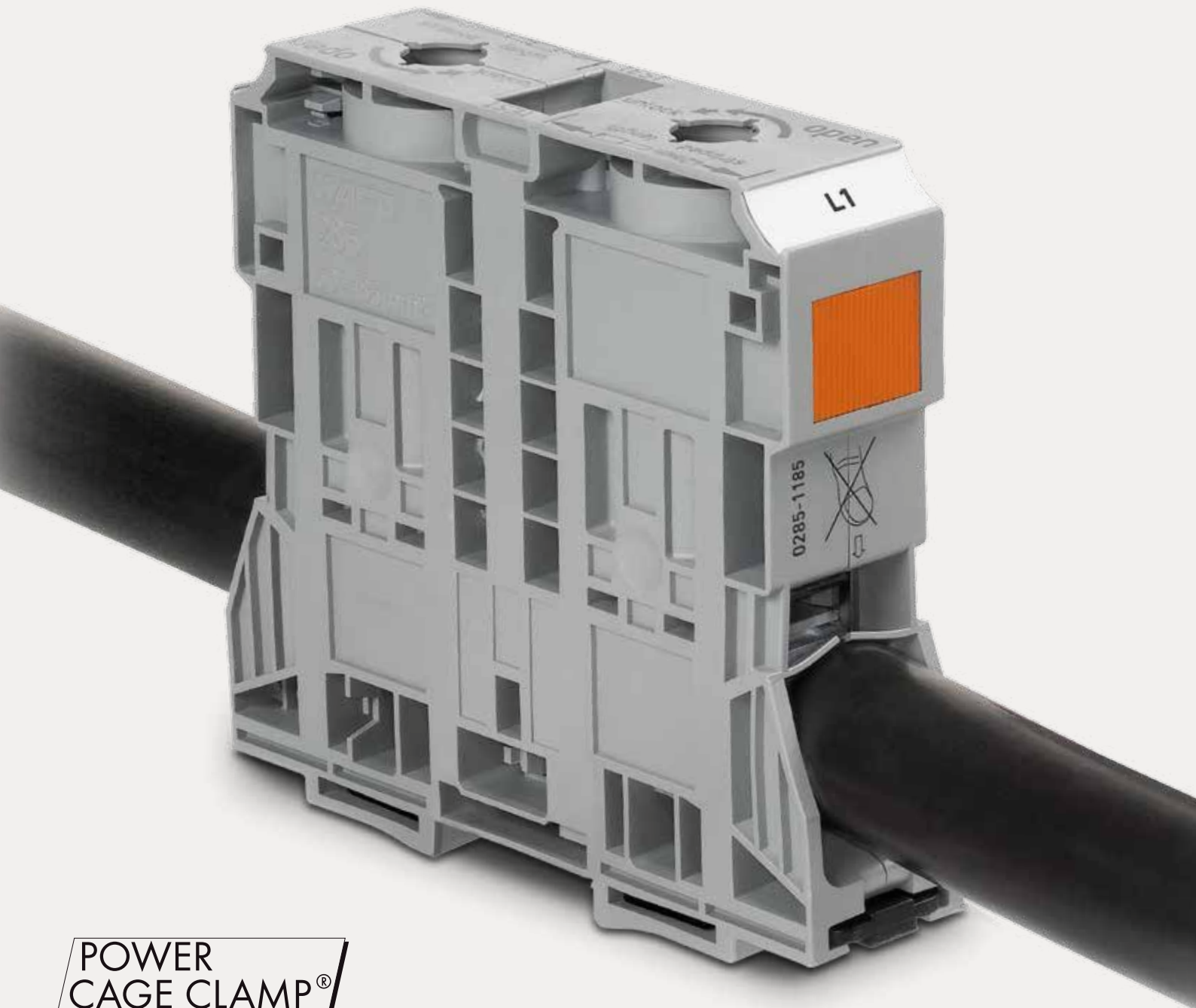


## Our Power Team

High-Current, Rail-Mount Terminal Blocks  
for Conductors up to 185 mm<sup>2</sup> (350 kcmil)



**POWER  
CAGE CLAMP®**

vibration-proof – fast – maintenance-free



© WAGO

## BENEFITS

**Using springs instead of screws is the key to WAGO's success. The POWER CAGE CLAMP provides the appropriate clamping force for conductors up to 35, 50, 95 and 185 mm<sup>2</sup> (2, 1/0, 3/0 AWG and 350 kcmil).**

Main applications:

Energy-intensive industries, including machinery and equipment manufacturing, as well as energy production; the high-current, rail-mounted terminal blocks are also suited for Ex e applications (185 mm<sup>2</sup>/350 kcmil is pending).

The Latest and Largest Member of  
Our High-Current Family Connects:

185 mm<sup>2</sup> via Spring Pressure

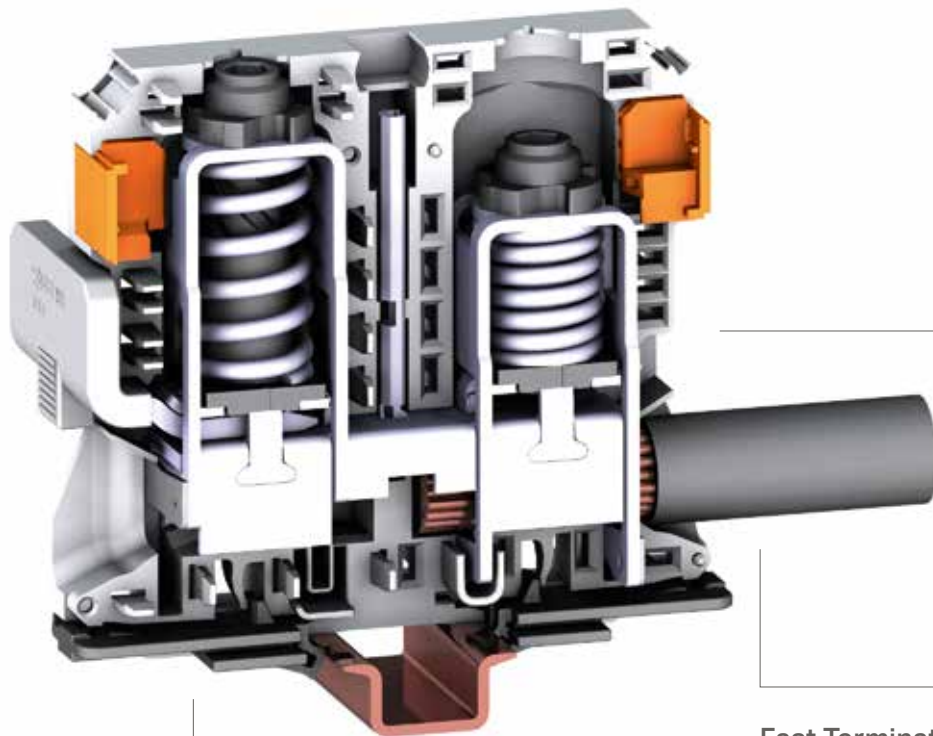
- 353 A
- Up to 1000 VAC/DC
- Up to 1500 VDC

## Suitable for Every Application

- The high-current terminal blocks meet the most stringent requirements, including those specified for railway and marine applications.
- Heat- and cold-resistant – even under the heaviest of loads

## Always Reliable

Optimum clamping force – independent of operator skill



## Easy to Use

- Side conductor entry
- Orange locking tab keeps the clamp open for hands-free wiring

## Fast Termination

Eliminate time-consuming preparation – no ring terminals or ferrules required

**Vibration-Proof – Fast – Maintenance-Free**



# OUR POWER TEAM

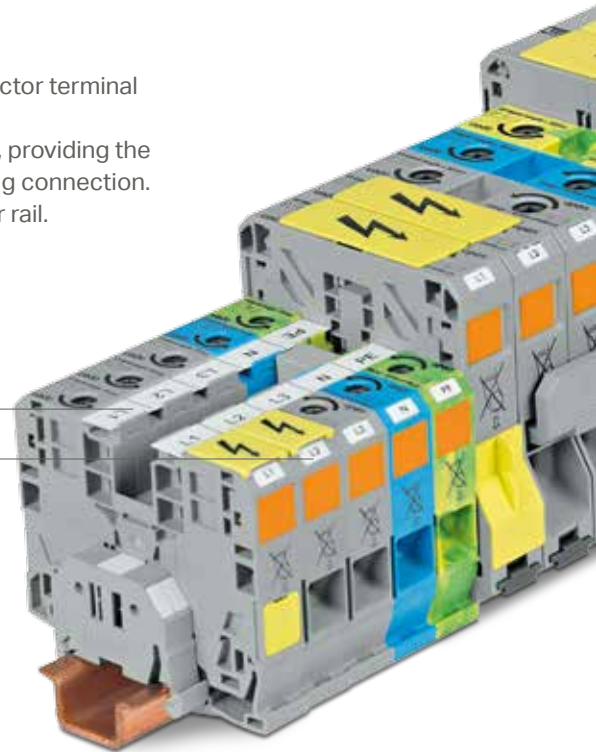
Terminate Conductors up to 185 mm<sup>2</sup> (350 kcmil) with Just One Turn

## Mounting

- Firmly snap a ground conductor terminal block onto DIN-rail.
- The contact foot is secured, providing the appropriate power grounding connection. Use a 2.3 mm copper carrier rail.

## Marking

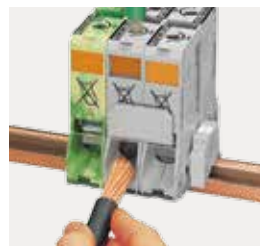
- WMB markers are suitable for all high-current terminal blocks.
- Apply marking strips directly to both 35 mm<sup>2</sup> (2 AWG) and 185 mm<sup>2</sup> (350 kcmil) terminal blocks.
- Use marking strip carriers for 35 ... 95 mm<sup>2</sup> (2 ... 3/0 AWG) terminal blocks.



## Conductor Termination



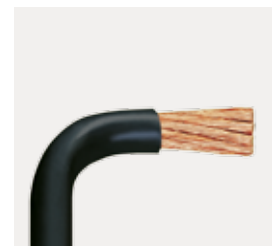
Rotate the T-wrench or screwdriver counter-clockwise to the stop ①. Next, push in the orange locking tab. The clamp is locked open for hands-free wiring.



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



A short counter-clockwise rotation ② releases the tab. When unlocked, the T-wrench rotates clockwise, securely clamping the conductor.



1. Bend conductor.  
2. Cut conductor to length (conductor end must be straight).  
3. Strip conductor (length printed on terminal block).



## Safety

### Protective Warning Covers

- Clearly indicate high-voltage applications. Ex., Notice: Power is still on even after switching off the main switch!

### Finger Guards

- Yellow, detachable covers shield the jumper slots and/or unused conductor entries, making them touch-proof.

### Risk of Injury!

- Keep fingers out of the conductor entry hole!

## Power Tap

(for 35 ... 185 mm<sup>2</sup>/2 AWG ... 350 kcmil)

- Provides safe and easy power distribution to additional loads.
- Insert the unwired tap before actuating the spring for termination.
- For 35 mm<sup>2</sup> (2 AWG) blocks, insert the power tap into the jumper slot in the middle of the terminal block.

## Commoning ...



### ... for 35 mm<sup>2</sup> (2 AWG)

Commoning adjacent terminal blocks using a centrally positioned push-in jumper. Use an operating tool to remove the conductor.



### ... for 50, 95 (1/0, 3/0 AWG) and 185 mm<sup>2</sup> (350 kcmil)

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



### ... via Step-Down Jumpers with TOPJOB® S























Commoning 35 mm<sup>2</sup> (2 AWG) high-current terminal blocks with 10/16 mm<sup>2</sup> (8/6 AWG) TOPJOB® S Terminal Blocks.



























### Testing

Easy troubleshooting via 4 mm Ø touch-proof test plug. Use a test plug adapter (283-404) for 35 mm<sup>2</sup> (2 AWG) terminal blocks. (Test plugs are not available from WAGO, but are offered by suppliers, such as Multi-Contact Deutschland GmbH.)

# 285 SERIES

	35 mm <sup>2</sup> (2 AWG)	50 mm <sup>2</sup> (1/0 AWG)	
<b>Conductor cross-section</b>	6 ... 35 mm <sup>2</sup>	10 ... 2 AWG	10 ... 50 (70 "f-st") mm <sup>2</sup>
<b>Rated voltage</b>	1000 V	600 V, 115 A 	8 ... 2/0 AWG
<b>Rated impulse voltage</b>	8 kV	600 V, 115 A 	1000 V
<b>Pollution degree</b>	3	600 V, 115 A 	8 kV
<b>Nominal current</b>	I <sub>N</sub> 125 A		I <sub>N</sub> 150 A
<b>Terminal block width</b>	16 mm/0.63 in.		20 mm/0.79 in.
<b>Strip length</b>	 25 mm/0.98 in.		 30 mm/1.18 in.
<b>Image</b>			
<b>Item Numbers</b>	2-conductor through terminal block ● 285-135 ● 285-134 ● 285-935*  Only suitable for DIN 35 x 15 rails	2-conductor ground terminal block ● 285-137 ● 285-137/999-950*  Only suitable for DIN 35 x 15 rails; 2.3 mm thick	2-conductor through terminal block ● 285-150 ● 285-154 ● 285-950*  Only suitable for DIN 35 x 15 rails
<b>Three-phase set</b>	 285-139		285-159
<b>Accessories</b>			
Adjacent jumper	 285-435 (I <sub>N</sub> 85 A)		285-450 (I <sub>N</sub> 150 A for 1 jumper, I <sub>N</sub> 130 A for 2 ... 4 jumpers)
Step-down jumper	 285-430 (I <sub>N</sub> 90 A)		–
Power tap	 285-427 (800 V/8 kV/3; I <sub>N</sub> 32 A)		285-447 (1000 V/8 kV/3; I <sub>N</sub> 41 A)
Warning cover	 285-420		285-440
Finger guard	 285-421		285-441
Operating tool	 210-721 (type 3, 5.5 x 0.8 mm blade)		285-172
<b>Marking Accessories</b>			
Marking strips	 2009-110 (plain, white, 11 mm wide, 50 m reel)		2009-110 (plain, white, 11 mm wide, 50 m r
WMB Inline markers	 2009-115 (plain, white, 1500 markers, stretchable 5 ... 5.2 mm)		2009-115 (plain, white, 1500 markers, str
WMB Multi marking system	 793-5501 (plain, white, 10 strips with 10 markers per card, stretchable 5 ... 5.2 mm)		793-5501 (plain, white, 10 strips with 10 m stretchable 5 ... 5.2 mm)
Marker carrier	 285-442		285-442

	95 mm <sup>2</sup> (3/0 AWG)		185 mm <sup>2</sup> (350 kcmil)	
<p>10 ... 50 (70 "f-st") mm<sup>2</sup> 8 ... 1/0 AWG 600 V, 150 A </p> <p>600 V, 150 A </p> 	<p>25 ... 95 mm<sup>2</sup> 1000 V 8 kV 3</p> <p><math>I_N</math> 232 A 25 mm/0.98 in.  35 mm/1.38 in.</p> 	<p>4 ... 4/0 AWG 600 V, 200 A </p> <p>600 V, 210 A </p> 	<p>50 ... 185 mm<sup>2</sup> 1/0 AWG ... 350 kcmil 1000 VAC/DC / 1500 VDC 12 kV 3</p> <p><math>I_N</math> 353 A 32 mm/1.26 in.  45 ... 47 mm/1.77 ... 1.85 in.</p> 	<p>50 ... 120 mm<sup>2</sup> 1/0 AWG ... 250 kcmil</p> 
<p>2-conductor ground terminal block  <b>285-157</b>  <b>285-157/999-950*</b>  Only suitable for DIN 35 x 15 rails; 2.3 mm thick, copper</p>	<p>2-conductor through terminal block  <b>285-195</b>  <b>285-194</b>  <b>285-995*</b>  Only suitable for DIN 35 x 15 rails</p>	<p>2-conductor ground terminal block  <b>285-197</b>  <b>285-197/999-950*</b>  Only suitable for DIN 35 x 15 rails; 2.3 mm thick, copper</p>	<p>2-conductor through terminal block  <b>285-1185</b>  <b>285-1184</b> Only suitable for DIN 35 x 15 rails</p>	<p>2-conductor ground terminal block  <b>285-1187</b> Only suitable for DIN 35 x 15 rails; 2.3 mm thick, copper</p>
	<b>285-199</b>		<b>285-1169</b>	
	<b>285-495</b> ( $I_N$ 232 A for 1 jumper, $I_N$ 192 A for 2 ... 4 jumpers)		<b>285-1171</b> ( $I_N$ 309 A for 1 jumper)	
	–		–	
	<b>285-407</b> (1000 V/8 kV/3; $I_N$ 57 A)		<b>285-1175</b> (1000 V/8 kV/3; $I_N$ 57 A)	
	<b>285-170</b>		<b>285-1177</b>	
	<b>285-169</b>		<b>285-1178</b>	
	<b>285-172</b>		<b>285-172</b>	
reel)	<b>2009-110</b> (plain, white, 11 mm wide, 50 m reel)		<b>2009-110</b> (plain, white, 11 mm wide, 50 m reel)	
etchable 5 ... 5.2 mm)	<b>2009-115</b> (plain, white, 1500 markers, stretchable 5 ... 5.2 mm)		<b>2009-115</b> (plain, white, 1500 markers, stretchable 5 ... 5.2 mm)	
markers per card,	<b>793-5501</b> (plain, white, 10 strips with 10 markers per card, stretchable 5 ... 5.2 mm)		<b>793-5501</b> (plain, white, 10 strips with 10 markers per card, stretchable 5 ... 5.2 mm)	
	<b>285-442</b>		–	

\*For more technical data, see our Full Line Catalog, Volume 1, or visit <http://eshop.wago.com>





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# 185 mm<sup>2</sup> BLOCK WITH FLANGES

**WAGO's 185 mm<sup>2</sup> (350 kcmil) high-current, rail-mounted terminal blocks are also available with flanges for direct installation on a mounting plate.**

This version shares the same accessories with the 185 mm<sup>2</sup> rail-mount terminal blocks.



Versions for functional ground  
in gray-yellow housing

Nominal current: 353 A  
Rated voltage:  
up to 1000 VAC/DC and  
1500 VDC



Mount a 185 mm<sup>2</sup> terminal  
block directly onto the plate  
via screw-type flanges.

**Vibration-Proof – Fast – Maintenance-Free**

# INSTALLATION

1.



First, insert block-to-block connectors (285-1179) into housing slots.

2.














Then, connect and align the terminal blocks.

3.



Secure the terminal block to a mounting plate using two M8 cylinder-head screws and appropriate washers.

# 285 SERIES WITH FLANGES

		185 mm <sup>2</sup> /350 kcmil	
<b>Conductor cross-section</b>		50 ... 185 mm <sup>2</sup> 1/0 AWG ... 350 kcmil	50 ... 185 mm <sup>2</sup> 1/0 AWG ... 350 kcmil
<b>Rated voltage</b>		1000 VAC/DC / 1500 VDC	1000 VAC/DC / 1500 VDC
<b>Rated impulse voltage</b>		12 kV	12 kV
<b>Pollution degree</b>		3	3
<b>Nominal current</b>		I <sub>N</sub> 353 A	I <sub>N</sub> 353 A
<b>Terminal block width</b>		32 mm/1.26 in.	32 mm/1.26 in.
<b>Strip length</b>		 45...47 mm/1.77 ...1.85 in.	 45...47 mm/1.77 ...1.85 in.
<b>Image</b>			
<b>Item Numbers</b>		2-conductor through terminal block with screw flanges ● 285-1161 ● 285-1164	2-conductor through terminal block with screw flanges ● 285-1167
<b>Accessories</b>			
Adjacent jumper		285-1171 (I <sub>N</sub> 309 A for 1 jumper)	
Power tap		285-1175 (1000 V/8 kV/3; I <sub>N</sub> 57 A)	
Block-to-block connector		285-1179	
Warning cover		285-1177	
Finger guard		285-1178	
Operating tool		285-172	
<b>Marking Accessories</b>			
Marking strips		2009-110 (plain, white, 11 mm wide, 50 m reel)	
WMB Inline markers		2009-115 (plain, white, 1500 markers, stretchable 5 ... 5.2 mm)	
WMB Multi marking system		793-5501 (plain, white, 10 strips with 10 markers per card, stretchable 5 ... 5.2 mm)	

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