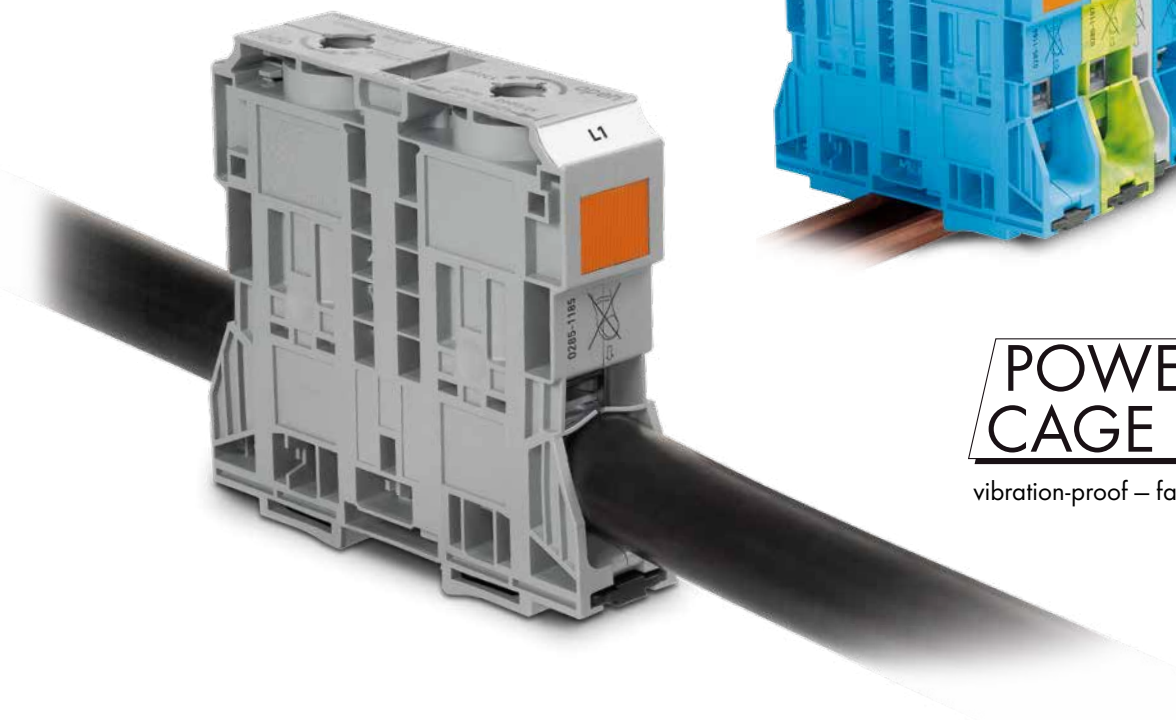


# OUR POWER TEAM

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



**POWER  
CAGE CLAMP®**

vibration-proof – fast – maintenance-free

**WE  
INNOVATE!**



**WAGO®**

# BENEFITS

## Primary applications:

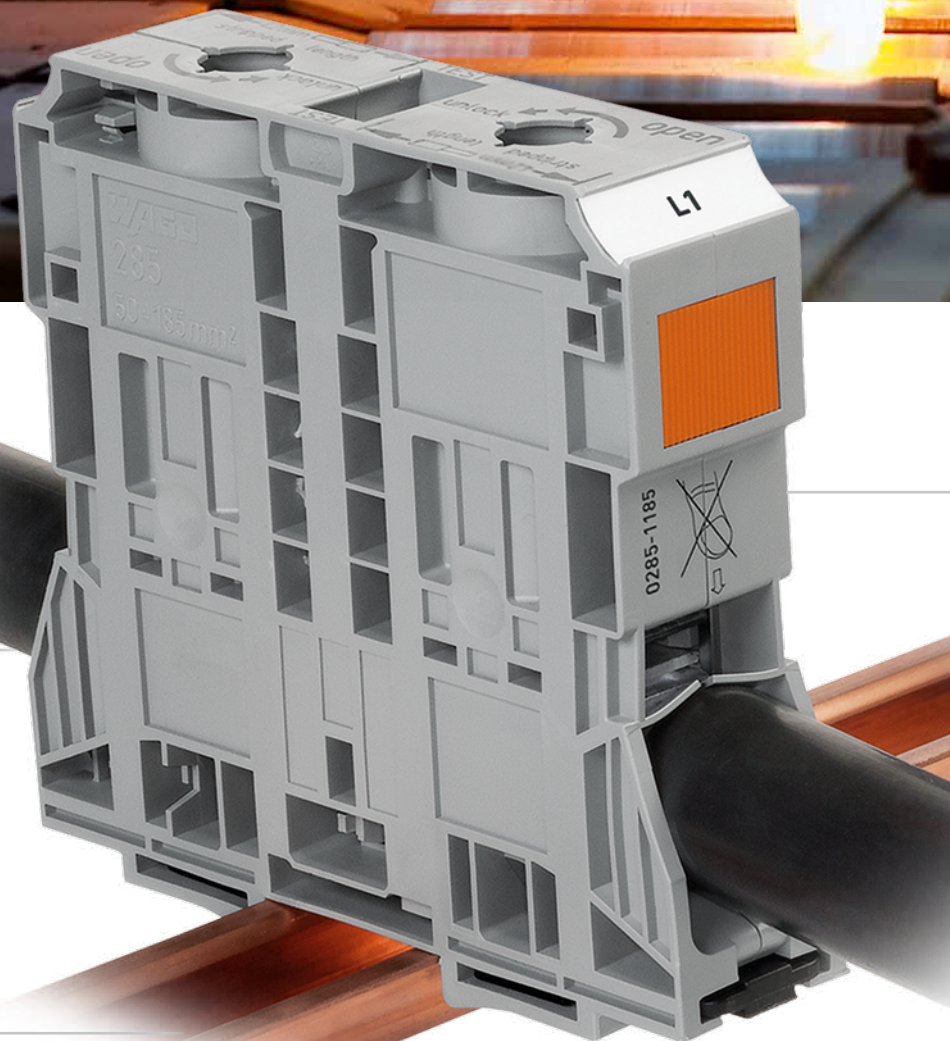
Energy-intensive industries, including machinery and equipment manufacturing, as well as energy production

### Fast termination

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

### Easy to Use

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







The key to WAGO's success: springs, not screws.  
The **POWER CAGE CLAMP** always provides the right clamping force for conductors up to 35, 50, 95 and 185 mm<sup>2</sup> (2, 2/0, 4/0 AWG and 350 kcmil).

• **Always reliable**

The perfect clamping force –  
Regardless of operator skill

• **Suitable for all applications**

- WAGO's 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.

• **vibration-proof – fast – maintenance-free**

The latest and largest member  
of our high-current family: 185 mm<sup>2</sup>  
Connected via Spring Pressure

- 353 A
- AC/DC up to 1000 V
- DC up to 1500 V



**WAGO**®

# OUR POWER TEAM

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

## Assembly

- 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

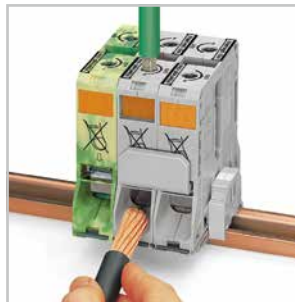
- WMB markers are suitable for all high-current terminal blocks.
- Marking strips must be applied directly to both 35 mm<sup>2</sup> (2 AWG) and 185 mm<sup>2</sup> (350 kcmil) terminal blocks.
- Marking strip adapters are used for 35–95 mm<sup>2</sup> (2–4/0 AWG) terminal blocks.



## Connection



Rotate the T-wrench or screw-driver counter-clockwise until it stops ①. Next, push in the orange locking tab. The clamp is locked open for hands-free wiring.



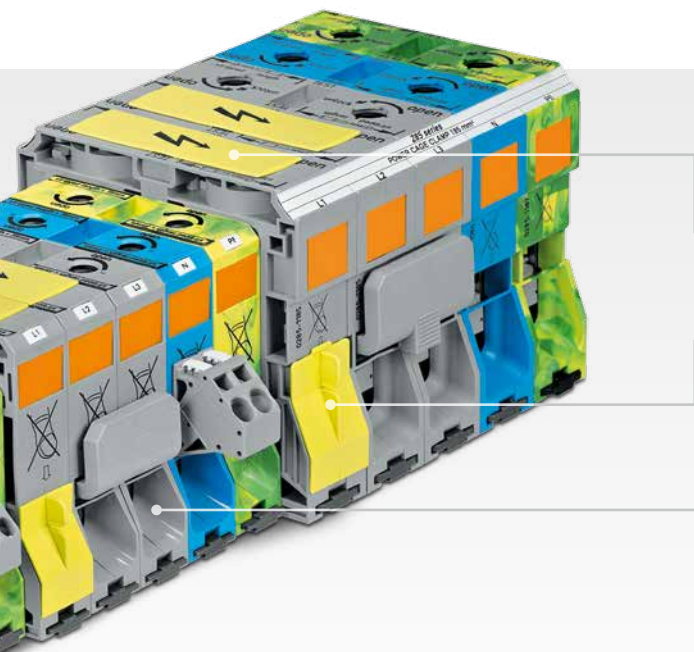
Insert a stripped conductor into the clamping unit until it hits backstop. Hold in this position.



A short counter-clockwise rotation 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 (Observe the strip length printed on terminal block!)



## Security

- **Warning covers** visually indicate high-voltage applications, Ex.:  
NOTICE: Power is still on even after turning off the main switch!
- **Yellow, detachable covers** shield the jumper slots and/or unused conductor entries, making them touchproof.
- **Risk of injury!** Keep fingers out of the conductor entry hole!

## Power tap (50-95 mm<sup>2</sup>, 185 mm<sup>2</sup> pending)

- Power tap provides safe and easy power distribution to additional loads.
- Insert the unwired tap before actuating the spring.
- Then insert the power tap into the jumper slot of 35 mm<sup>2</sup> (2 AWG) terminal blocks.

## Commoning

... for 35 mm<sup>2</sup>



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

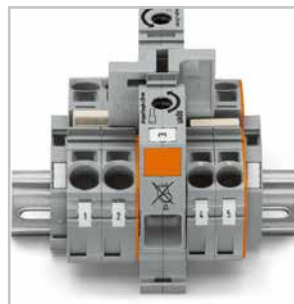
... for 50, 95 and 185 mm<sup>2</sup>



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

## Commoning

... 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 using step-down jumpers.

Testing









































Easy troubleshooting via 4 mm Ø touchproof test plug.

A test plug adapter (283-404) is used for the 35 mm<sup>2</sup> (2 AWG) terminal block. (Test plugs are not available from WAGO, but are offered by industry suppliers such as Multi-Contact Deutschland GmbH.)

# 285 SERIES

## Item Numbers

		35 mm <sup>2</sup> (2 AWG)		
Conductor cross-section		6–35 mm <sup>2</sup>	8–2 AWG	10 ... 50 (70 "f-st") mm <sup>2</sup>
rated voltage/ rated impulse voltage/ pollution degree		1000 V 8 kV 3	600 V, 115 A  600 V, 115 A 	1000 V 8 kV 3
Nominal current		I <sub>n</sub> 125 A		I <sub>n</sub> 150 A
Terminal block width		16 mm/0.63 in		20 mm/0.79 in
Strip length		 25 mm/0.98 in		 30 mm/1.18 in
Figure				
Item Number		2-conductor through terminal block ● 285-135 ● 285-134  Only suitable for DIN 35 x 15 rails	2-conductor ground terminal block ● 285-137  Only suitable for DIN 35 x 15 rails; 2.3mm thick.	2-conductor through terminal block ● 285-150 ● 285-154  Only suitable for DIN 35 x 15 rails
Three phase set		285-139		285-159
Accessories				
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
Shock protector		285-421		285-441
Tools		210-721 (Type 3, blade 5.5 x 0.8 mm)		285-172
Marking System				
Marking strips		2009-110 (plain, white, 11 mm wide, 50 m reel)		2009-110 (plain, white, 11 mm wide,
WMB-Inline		2009-115 (plain, white, 1,500 markers, stretchable 5–5.2 mm)		2009-115 (plain, white, 1,500 mark
WMB Multi Marking System		793-5501 (plain, white, 10 markers per card, stretchable 5–5.2 mm)		793-5501 (plain, white, 10 markers stretchable 5–5.2 mm)
Marker carrier		285-442		285-442

50 mm <sup>2</sup> (2/0 AWG)	95 mm <sup>2</sup> 4/0 AWG		185 mm <sup>2</sup> 350 kcmil	
8-2/0 AWG 600 V, 150 A  600 V, 150 A 	25 ... 95 mm <sup>2</sup> 1000 V 8 kV 3  I <sub>n</sub> 232 A 25 mm/0.98 in  35 mm/1.38 in	4-4/0 AWG 600 V, 200 A  600 V, 210 A 	50-185 mm <sup>2</sup> AWG 1/0-350 kcmil AC/DC 1000 V/DC 1500 V 12 kV 3  I <sub>n</sub> 353 A 32 mm/1.26 in  45 - 47 mm/1.77-1.85 in	50-120 mm <sup>2</sup> AWG 1/0-250 kcmil
				
2-conductor ground terminal block  <b>285-157</b> Only suitable for DIN 35 x 15 rails; 2.3mm thick, copper.	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	2-conductor ground terminal block  <b>285-197</b>  <b>285-197/999-950*</b>  Only suitable for DIN 35 x 15 rails; 2.3mm thick, copper.	2-conductor through terminal block  <b>285-1185</b>  <b>285-1184</b> Only suitable for DIN 35 x 15 rails	2-conductor ground terminal block  <b>285-1187</b> Only suitable for DIN 35 x 15 rails; 2.3mm thick, copper.
	<b>285-199</b>		<b>285-1169</b>	
	<b>285-495</b> (I <sub>n</sub> 232 A for 1 jumper, I <sub>n</sub> 192 A for 2-4 jumpers)		<b>285-1171</b> (I <sub>n</sub> 309 A for 1 jumper)	
	-		-	
	<b>285-407</b> (1000 V/8 kV/3; I <sub>n</sub> 57 A)		pending	
	<b>285-170</b>		<b>285-1177</b>	
	<b>285-169</b>		<b>285-1178</b>	
	<b>285-172</b>		<b>285-172</b>	
50 m 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)	
ers, stretchable 5-5.2 mm)	<b>2009-115</b> (plain, white, 1,500 markers, stretchable 5-5.2 mm)		<b>2009-115</b> (plain, white, 1,500 markers, stretchable 5-5.2 mm)	
per card,	<b>793-5501</b> (plain, white, 10 markers per card, stretchable 5-5.2 mm)		<b>793-5501</b> (plain, white, 10 markers per card, stretchable 5-5.2 mm)	
	<b>285-442</b>		-	

\*For more technical data, see Full Line Catalog W1 Volume or visit <http://eshop.wago.com>

**WE  
INNOVATE!**



WAGO Kontakttechnik GmbH & Co. KG  
Postfach 28 80 · D - 32385 Minden  
Hansastraße 27 · D - 32423 Minden  
Germany  
Phone: +49 571 887-0  
Fax: +49 571 887-169  
Email: [info@wago.com](mailto:info@wago.com)  
Online: [www.wago.com](http://www.wago.com)