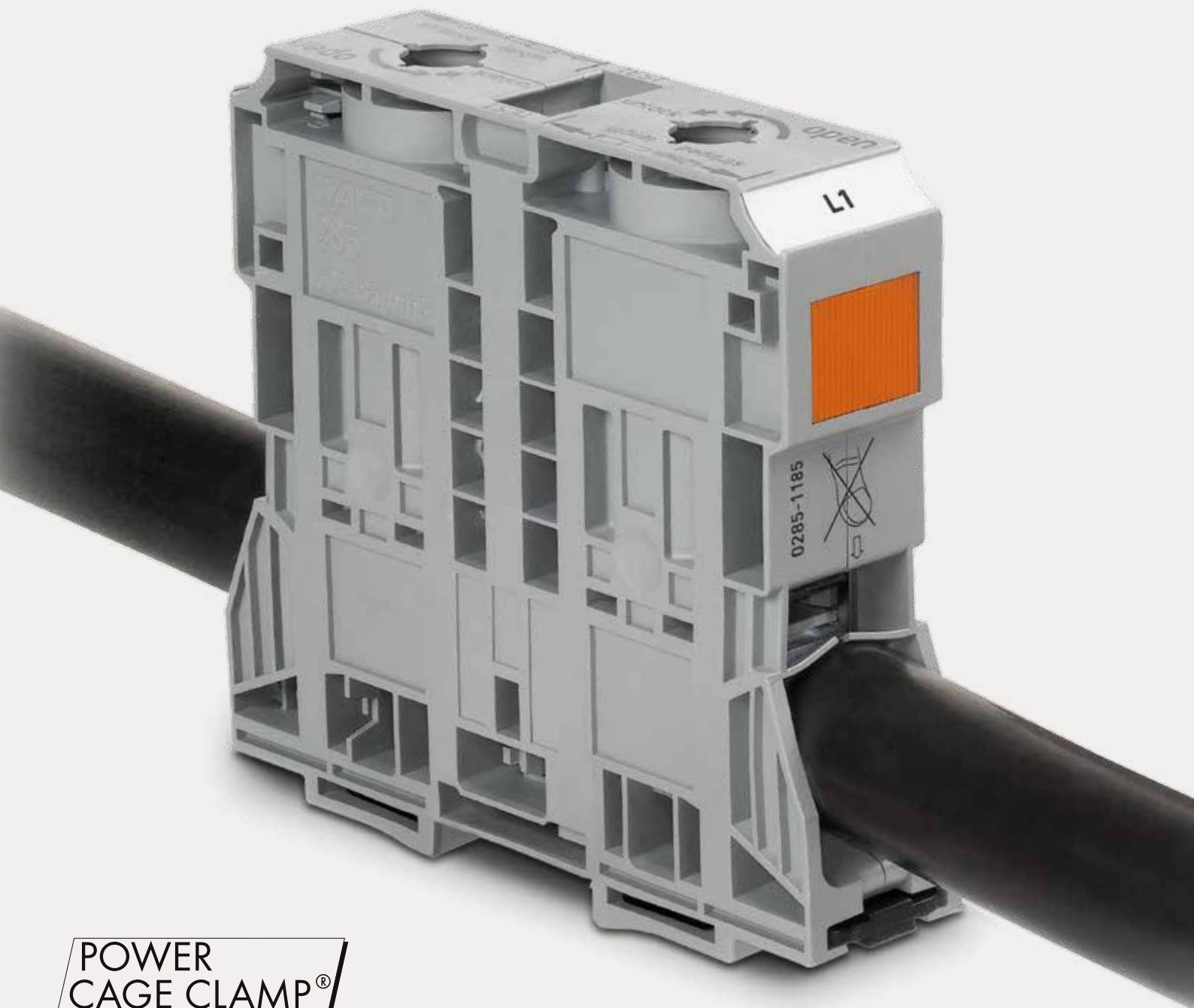


Our Power Team

High-Current, Rail-Mount Terminal Blocks
for Conductors up to 185 mm² (350 kcmil)



**POWER
CAGE CLAMP®**

Vibration-Proof – Fast – Maintenance-Free



© WAGO

BENEFITS

The key to WAGO's success: springs, not screws. This design gives POWER CAGE CLAMP the appropriate clamping force for conductors up to 35, 50, 95 and 185 mm² (2, 2/0, 4/0 AWG and 350 kcmil).

Main applications:

WAGO's high-current, rail-mount terminal blocks are mainly used in energy-intensive industries, including machinery and equipment manufacturing, as well as energy production.

Rail-mount terminal blocks for 35 mm² (2 AWG), 50 mm² (2/0 AWG) and 95 mm² (4/0 AWG) conductors are also approved for hazardous areas, making them ideal for "Ex e" increased safety applications.

The following models are approved per DIN EN 60079-0 and DIN EN 60079-7: 2-conductor through terminal blocks (light gray) and ground conductor terminal blocks (green-yellow) with ".../999-950" suffix number.

Select accessories are also certified to provide switchgear manufacturers with full flexibility when high-current, rail-mount terminal blocks are used in hazardous locations.

The Largest Member of Our High-Current Family:

Connect 185 mm² via Spring Pressure

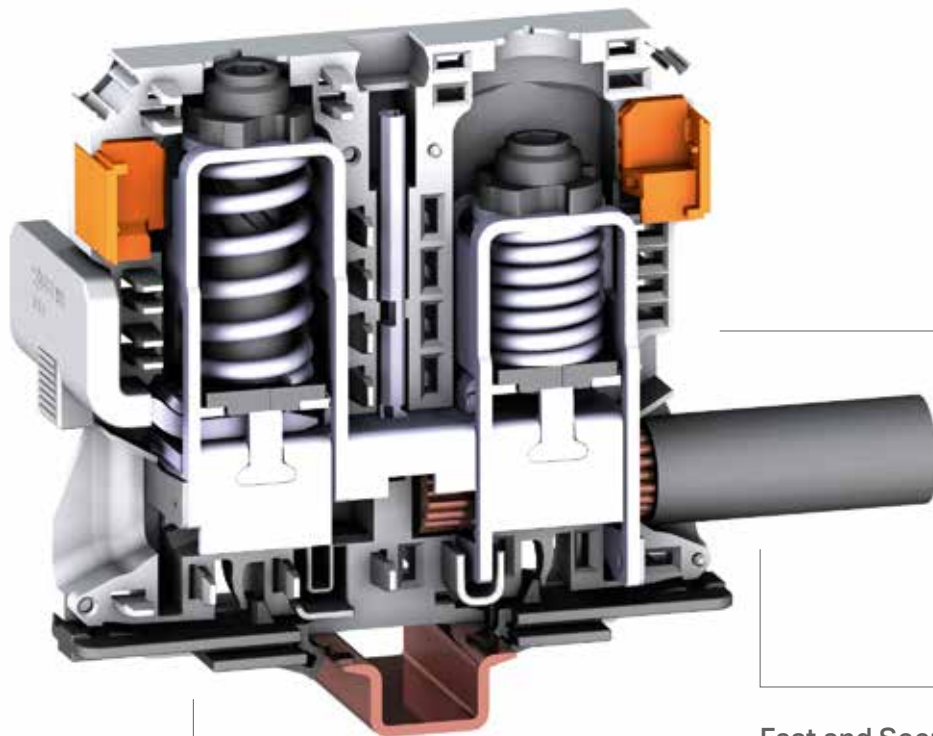
- 353 A
- Up to 1000 VAC/DC
- Up to 1500 VDC

Perfect 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.

Optimum Clamping Force

The contact quality is largely independent of operator skill.



Easy to Use

- Side conductor entry
- Orange locking tab keeps the clamp open, freeing the hands for wiring.

Fast and Secure Connection

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

Vibration-Proof – Fast – Maintenance-Free

OUR POWER TEAM

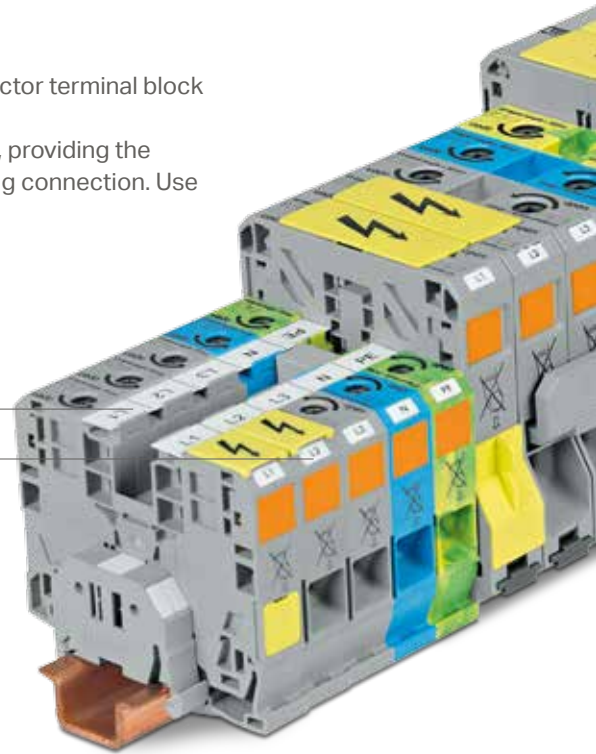
Terminate Conductors up to 185 mm² (350 kcmil) with Just One Turn

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

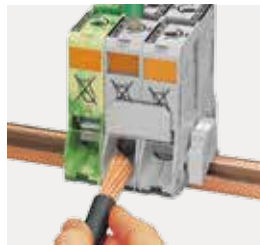
- WMB markers are suitable for all high-current terminal blocks.
- Apply marking strips directly to both 35 mm² (2 AWG) and 185 mm² (350 kcmil) terminal blocks.
- Use marking strip carriers for 35 ... 95 mm² (2 ... 4/0 AWG) terminal blocks.



Conductor Termination



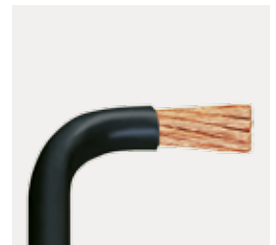
Rotate the T-wrench or screwdriver counter-clockwise to the stop ❶. Next, push in the orange locking tab. The clamp is locked open for hands-free wiring.



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



A short counter-clockwise rotation ❷ 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).



Safe

Protective Warning Covers

- Clearly indicate high-voltage applications (e.g., 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 mm²/2 AWG ... 350 kcmil)

- Provides safe and easy power distribution to additional loads.
- Insert the unwired tap before actuating the spring for termination.
- For 35 mm² (2 AWG) blocks, insert the power tap into the jumper slot in the middle of the terminal block.

Commoning



... for 35 mm² (2 AWG)

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



... for 50, 95 mm² (2/0, 4/0 AWG) and 185 mm² (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 mm² (2 AWG) high-current terminal blocks with 10/16 mm² (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 mm² (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 ²		50 mm ²
Conductor cross-section	6 ... 35 mm ²	10 ... 2 AWG	10 ... 50 (70 "f-st") mm ²
Rated voltage	1000 V	600 V, 115 A  , 600 V, 115 A 	8 ... 2/0 AWG
Rated surge voltage	8 kV		1000 V
Pollution degree	3		3
Nominal current	I _N 125 A		I _N 150 A
Terminal block width	16 mm/0.63 inch		20 mm/0.79 inch
Strip length	 25 mm/0.98 inch		 30 mm/1.18 inch
Image			
Item number	2-conductor through terminal block ● 285-135 ● 285-134 ● 285-131 ● 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 5 x 15 rails; 2.3 mm thick	2-conductor through terminal block ● 285-150 ● 285-154 ● 285-151 ● 285-950*  Only suitable for DIN 35 x 15 rails
Three-phase set	 285-139		285-159
Accessories			
Adjacent jumper	 285-435 (I _N 85 A)		285-450 (I _N 150 A for 1 jumper, I _N 130 A for 2 ... 4 jumpers)
Step-down jumper	 285-430 (I _N 90 A)		—
Power tap	 285-427 (800 V/8 kV/3; I _N 32 A)		285-447 (1000 V/8 kV/3; I _N 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
Marking			
Marking strips	 2009-110 (plain, white, 11 mm wide, 50 m reel)		2009-110 (plain, white, 11 mm wide, 50 m reel)
WMB Inline markers	2009-115 (plain, white, 1,500 markers, stretchable 5 ... 5.2 mm)		2009-115 (plain, white, 1,500 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)		793-5501 (plain, white, 10 strips with 10 markers per card, stretchable 5 ... 5.2 mm)
Marker carrier	 285-442		285-442

	95 mm ²		185 mm ²	
10 ... 50 (70 "f-st") mm ² 8 ... 1/0 AWG 600 V, 150 A  , 600 V, 150 A 	25 ... 95 mm ² 1000 V 8 kV 3 I_N 232 A 25 mm/0.98 inch  35 mm/1.38 inch	4 ... 4/0 AWG 600 V, 200 A  , 600 V, 210 A 	50 ... 185 mm ² 1/0 AWG ... 350 kcmil 1000 VAC/DC / 1500 VDC 12 kV 3 I_N 353 A 32 mm/1.26 inch  45 ... 47 mm/1.77 ... 1.85 inch	50 ... 120 mm ² 1/0 AWG ... 250 kcmil
				
2-conductor ground terminal block  285-157  285-157/999-950*  Only suitable for DIN 35 x 15 rails; 2.3 mm thick, copper	2-conductor through terminal block  285-195  285-194  285-191  285-995*  Only suitable for DIN 35 x 15 rails	2-conductor ground terminal block  285-197  285-197/999-950*  Only suitable for DIN 35 x 15 rails; 2.3 mm thick, copper	2-conductor through terminal block  285-1185  285-1184  285-1181 Only suitable for DIN 35 x 15 rails	2-conductor ground terminal block  285-1187 Only suitable for DIN 35 x 15 rails; 2.3 mm thick, copper
	285-199		285-1169	
	285-495 (I_N 232 A for 1 jumper, I_N 192 A for 2 ... 4 jumpers)		285-1171 (I_N 309 A for 1 jumper)	
	—		—	
	285-407 (1000 V/8 kV/3; I_N 57 A)		285-1175 (1000 V/8 kV/3; I_N 57 A)	
	285-170		285-1177	
	285-169		285-1178	
	285-172		285-172	
(reel)	2009-110 (plain, white, 11 mm wide, 50 m reel)		2009-110 (plain, white, 11 mm wide, 50 m reel)	
	2009-115 (plain, white, 1,500 markers, stretchable 5 ... 5.2 mm)		2009-115 (plain, white, 1,500 markers, stretchable 5 ... 5.2 mm)	
(mm)	793-5501 (plain, white, 10 strips with 10 markers per card, stretchable 5 ... 5.2 mm)		793-5501 (plain, white, 10 strips with 10 markers per card, stretchable 5 ... 5.2 mm)	
	285-442		—	

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



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HIGH-CURRENT RAIL-MOUNT TERMINAL BLOCKS WITH FLANGES

WAGO's 50, 95 and 185 mm² (2/0, 4/0 AWG and 350 kcmil) high-current terminal blocks are also available with flanges for direct installation on a mounting plate.

These versions share the same accessories with the high-current DIN-rail-mount terminal blocks.

285-1161

Nominal current: 353 A
Rated voltage:
up to 1,000 VAC/DC and
up to 1,500 VDC

Version for functional ground
in gray-yellow housing without
contact to mounting frame



Secure flange terminal block
directly to the mounting plate.

Vibration-Proof – Fast – Maintenance-Free

INSTALLATION

1



First, insert block-to-block connectors into housing slots.

2



Then, connect and align the terminal blocks.

3



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

285 SERIES WITH FLANGES

		50 mm ²	95 mm ²	185 mm ²
Conductor cross-section		10 ... 50 (70 "f-st") mm ² 8 ... 1/0 AWG	25 ... 95 mm ² 4 ... 4/0 AWG	50 ... 185 mm ² 1/0 AWG ... 350 kcmil
Rated voltage		1000 V,	1000 V,	1000 VAC/DC / 1500 VDC
Rated surge voltage		600 V, 150 A  , 600 V, 150 A 	600 V, 200 A  , 600 V, 210 A 	12 kV
Pollution degree		8 kV 3	8 kV 3	3
Nominal current		I _N 150 A	I _N 232 A	I _N 353 A
Terminal block width		20 mm/0.79 inch	25 mm/1.98 inch	32 mm/1.26 inch
Strip length		 30 mm/1.18 inch	 35 mm/1.38 inch	 45 ... 47 mm/1.77 ... 1.85 inch
Image				
Item number		2-conductor through terminal block with mounting flanges ● 285-141 ● 285-144 ● 285-147	2-conductor through terminal block with mounting flanges ● 285-181 ● 285-184 ● 285-187	2-conductor through terminal block with mounting flanges ● 285-1161 ● 285-1164 ● 285-1167
Three-phase set		285-148	285-188	285-1165
Accessories				
Adjacent jumper		285-450 (I _N 150 A for 1 jumper, I _N 130 A for 2 ... 4 jumpers)	285-495 (I _N 232 A for 1 jumper, I _N 192 A for 2 ... 4 jumpers)	285-1171 (I _N 309 A for 1 jumper)
Power tap		285-447 (1000 V/8 kV/3; I _N 41 A)	285-407 (1000 V/8 kV/3; I _N 57 A)	285-1175 (1000 V/8 kV/3; I _N 57 A)
Block-to-block connector		285-448	285-168	285-1179
Warning cover		285-440	285-170	285-1177
Finger guard		285-441	285-169	285-1178
Operating tool		285-172	285-172	285-172
Marking				
Marking strips		2009-110 (plain, white, 11 mm wide, 50 m reel)		
WMB Inline markers		2009-115 (plain, white, 1,500 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)		
Marker carrier		285-442	285-442	—

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