

Rail-Mounted, High-Current Terminal Blocks, Series 285

Description and Handling

Conductor termination 1



Counter-clockwise rotation using a hex wrench. Latch holds clamp in open position.

Safety notice



Notice! Health hazard! Keep your fingers out of the conductor entry hole!

Touch protection cover



Jumper contact slots can also be sealed individually.

Conductor termination 2



Insert stripped conductor (stripped length 35 mm/ 1.38 in!) into the clamping unit until it hits the stop; hold conductor in position ...



Conductor termination 3



... A small counter-clockwise rotation releases the latch ①. Once the hex wrench ② has been removed, the conductor is clamped safely.

Jumpers 35 mm²/AWG 2



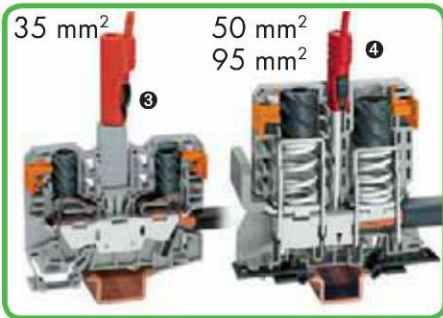
Commoning adjacent terminal blocks using centrally positioned adjacent jumper.

Jumpers 50 mm² (AWG 2/0)/ 95 mm² (AWG 3/0)



Commoning with adjacent jumper. Insertion of jumper above the conductor entry hole, without tools. Rated cross section is still 50 mm²/AWG 2/0 and 95 mm²/AWG 4/0.

Testing



③ Testing using plug adapters for Ø 4 mm/ 0.157 in plugs.
④ Testing with Ø 4 mm/0.157 in test plug, protected against accidental contact.

Voltage tap 35 mm²/AWG 2



The voltage tap is inserted into the jumper contact slot. It can be fitted with a strain relief plate and provides test option for Ø 2 mm/0.079 in test sockets.

Voltage tap 50 mm² (AWG 2/0)/ 95 mm² (AWG 3/0)



Reliable and simple tap directly onto the power supply. Insert the unwired tap before opening the clamping unit.



solid



stranded



fine-stranded



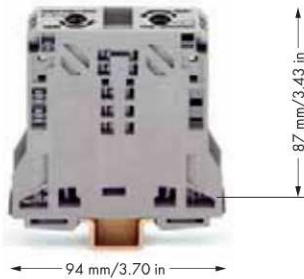
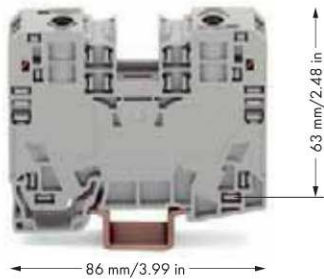
with crimped ferrule

High-Current Through/Ground (Earth) Conductor Terminal Blocks

Series 285, Side-entry

POWER CAGE CLAMP®

<p>6 – 35 mm² 1000 V/8 kV/3 I_N 125 A Terminal block width 16 mm / 0.63 in</p> <p>AWG 8 – 2 600 V, 115 A 600 V</p> <p> Approvals</p>	<p>10 – 50 (70 "f") mm² 1000 V/8 kV/3 I_N 150 A Terminal block width 20 mm / 0.78 in</p> <p>AWG 8 – 2/0 600 V 600 V</p> <p> Approvals</p>	<p>25 – 95 mm² 1000 V/8 kV/3 I_N 232 A Terminal block width 25 mm / 0.98 in</p> <p>AWG 4 – 3/0 600 V, 200 A 600 V, 210 A </p> <p> Approvals</p>
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Color	Item No.	PU	Color	Item No.	PU	Color	Item No.	PU
2-conductor through terminal block			2-conductor through terminal block			2-conductor through terminal block		
gray	285-135	15	gray	285-150	5	gray	285-195	5
blue	285-134	15	blue	285-154	5	blue	285-194	5
						light gray	285-995	5
2-conductor (ground) earth terminal block			2-conductor (ground) earth terminal block			2-conductor (ground) earth terminal block		
green-yellow	285-137	15	green-yellow	285-157	5	green-yellow	285-197	5
						green-yellow	285-197/999-950	5
To be used exclusively on DIN 35 x 15; 2.3 mm/0.091 in thick			To be used exclusively on DIN 35 x 15; 2.3 mm/0.091 in thick			To be used exclusively on DIN 35 x 15; 2.3 mm/0.091 in thick		
Accessories, Series 285			Appropriate marking system: WMB					
Adjacent jumper, insulated, 			Adjacent jumper, insulated, 			Adjacent jumper, insulated, 		
	gray	285-435 50 (2 x 25) I _N 85 A		gray	285-450 25 I _N 150 A for 1 jumper I _N 130 A for 2 to 4 jumpers		gray	285-495 25 I _N 232 A for 1 jumper I _N 192 A for 2 to 4 jumpers
Voltage tap, I_N 32 A, 0.2 - 6 mm², Module width 8 mm/0.315 in			Voltage tap, I_N 41 A, 0.2 - 6 mm², Module width 16 mm/0.63 in			Voltage tap, I_N 57 A, 0.2 - 10/16 mm², Module width 20 mm/0.787 in		
	gray	285-427 5		gray	285-447 5		gray	285-407 5
Operating tool, with partially insulated shaft, type 3, blade 5.5 x 0.8 mm/0.217 in x 0.031 in			Hex wrench, with partially insulated shaft 8 mm/0.32 in			Hex wrench, with partially insulated shaft 8 mm/0.32 in		
		210-621 1			285-172 1			285-172 1
Protective warning marker, with high-voltage symbol			Protective warning marker, with high-voltage symbol			Protective warning marker, with high-voltage symbol		
	yellow	285-420 50 (2 x 25)		yellow	285-440 50 (2 x 25)		yellow	285-170 50 (2 x 25)
Finger guard cover, serves as touchproof protection for unused clamping units			Finger guard cover, serves as touchproof protection for unused clamping units			Finger guard cover, serves as touchproof protection for unused clamping units		
	yellow	285-421 25		yellow	285-441 25		yellow	285-169 25
Test plug adapter, 11.6 mm/4.57 in wide, for test plug Ø 4 mm/0.157 in								
		283-404 25						
Test plug, Ø 4 mm / 0.157 in, protected against accidental contact; e.g., available through Fa. Multi-Contact Deutschland GmbH, Postfach 1606, 79551 Weil am Rhein, Hegenheimerstraße 19 79576 Weil am Rhein			Test plug, Ø 4 mm / 0.157 in, protected against accidental contact; e.g., available through Fa. Multi-Contact Deutschland GmbH, Postfach 1606, 79551 Weil am Rhein, Hegenheimerstraße 19 79576 Weil am Rhein			Test plug, Ø 4 mm / 0.157 in, protected against accidental contact; e.g., available through Fa. Multi-Contact Deutschland GmbH, Postfach 1606, 79551 Weil am Rhein, Hegenheimerstraße 19 79576 Weil am Rhein		
Carrier rail 35 x 15 mm (1.37 x 0.59 in), 2.3 mm/0.091 in thick, unslotted, acc. to EN 50022, steel, zinc-plated			Carrier rail 35 x 15 mm (1.37 x 0.59 in), 2.3 mm/0.091 in thick, unslotted, acc. to EN 50022, copper, unplated			Carrier rail 35 x 15 mm (1.37 x 0.59 in), 2.3 mm/0.091 in thick, unslotted, acc. to EN 50022, copper, unplated		
		210-198 10			210-198 10			210-198 10
Marker strips, white, plain, 11 mm/0.039 in wide, on roll			WMB Multi marking system, 10 strips with 10 markers 1 - 10 (10x) white			 Suitable for Ex e II applications 25 - 95 mm² 750 V~, 195 A AWG 4 - 3/0 20 - 70 mm² AWG 2 - 00 for ground (earth) terminal blocks		
		50 m 2009-110 1			793-5502 50 (10x5)			

Approvals are available online at: www.wago.com.

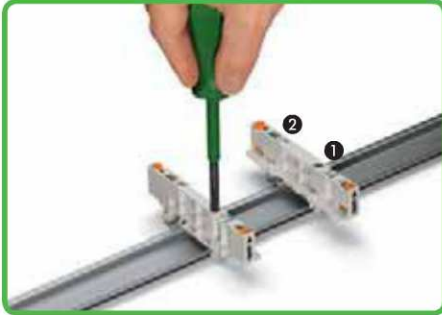
For technical explanations and abbreviations, see technical section.

Adjacent jumpers and voltage taps can only be removed or inserted when the clamp is in closed position.

High-Current Connectors 35 mm²/AWG 2, Series 834

Description and Handling

Positioning the mounting adapter



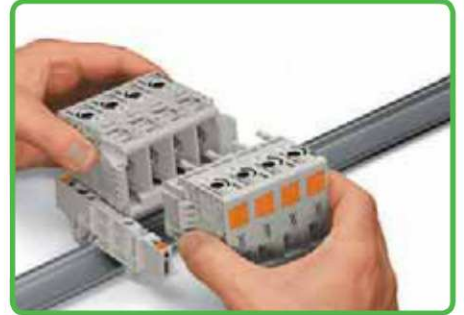
Position the mounting adapter and fix it using locking screw ①. Screw down locking device ② to the stop.

Coding



The coding pins removed from the female connector can be used to code the male connector.

Connection



Fix the male connector to the mounting adapters. Tilt the male connector to plug the female connector.

Assembly



Mounting a male and female connector assembly: Fit the assembly perpendicularly between the mounting adapters.

Fixing the assembly



Turn the latch on the mounting adapters from the **open** to the **closed** position using a screwdriver.



Latch: **open** position



Latch: **closed** position

Removing the assembly



Turn the mounting adapter latches to the **open** position. Lift the assembly between the mounting adapters and remove it.



Removing the assembly



Insert two screwdrivers into the separator slots between male and female connectors and unlatch the assembly.

Conductor termination



Opening the clamping unit: Counter-clockwise rotation using a screwdriver. Latch holds clamp in open position.



Conductor termination: Insert stripped conductor into the clamping unit until it hits the stop; hold conductor in position . . .



. . . A small counter-clockwise rotation releases the latch. ① Once the screwdriver ② has been removed, the conductor is clamped safely.