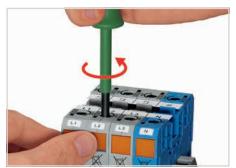
High-Current, Rail-Mount Terminal Blocks, 35 mm², 285 Series Description and Installation



Conductor termination – step 1 Rotate the operating tool (5.5 mm blade width) counter-clockwise. Next, push in the orange locking tab. The clamp is locked open for hands-free wiring.



Conductor termination – step 2 Insert a stripped conductor into the clamping unit until it hits backstop. Hold in this position.



Conductor termination – step 3
A small counter-clockwise rotation closes the clamp, securing conductor ①.
When unlocked, allow operating tool to rotate clockwise ② to securely terminate the conductor.



The power tap is inserted into the jumper contact slot. It can be fitted with a strain relief plate.



Testing





Testing with test plug adapter (283-404)



High-Current, Rail-Mount Terminal Blocks, 35 $\,\text{mm}^2$ (2 AWG) and 50 $\,\text{mm}^2$ (2/0 AWG)



Commoning adjacent terminal blocks using a centrally positioned push-in jumper.



Slide the marking strip laterally to remove the jumper.



Commoning 35 mm² (2 AWG) POWER CAGE CLAMP Terminal Blocks with 10/16 mm² (8/6 AWG) 2010 and 2016 Series TOPJOP® S Terminal Blocks using step-down jumpers (not valid for 2016-76xx and 2016-77xx).

Step-down jumpers may common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drops may be problematic. A large conductor can be easily connected to smaller conductors at the distribution point.

Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers. Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross-section may be commoned using adjacent jumpers.

In this case, pay attention that: The total current of the outgoing circuits does not exceed the nominal current of the step-down jumper.





Side-entry wiring means that even larger conductors, which have limited flexibility, can be easily connected.



WMB markers or self-adhesive, printable marking strips can be accommodated on 35, 50 and 95 mm² high-current terminal blocks.



Marker carrier for marking strip or 2 x WMB markers for 285-13x, 285-15x and 285-19x terminal blocks



High-Current, Through/Ground Conductor and Ex Terminal Blocks 35 mm², 285 Series



Step-down jumpers may common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drops may be problematic. A large conductor can be easily connected to smaller conductors at the distribution point.

Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers. Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross-section may be commoned using adjacent jumpers.

In this case, pay attention that:
The total current of the outgoing circuits does not exceed the nominal current of the step-down

Rail-mount terminal blocks with Ex mark are suitable for Ex e II applications. 800 V, 101 A



2-conductor through terminal block			
Color	Item No.	Pack. Unit	
gray	285-135	15	
blue	285-134	15	
light gray 😉	285-935	15	

91@

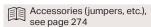
Technic	al Data
Rating	s per
Rated	voltage (III / 3)
Rated	surge voltage (III / 3)
Rated	current
Approv	val
Connec	tion Data
Conne	ction technology
Solid c	onductor
Fine-st	randed conductor
Strip len	gth
Termina	l block width
Module	width
Insulatio	on material
Note:	

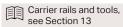
Adjacent jumper, insulated, I _N 85 A
WMB Inline, plain, 1,500 WMB markers (5 mm) per reel, 5 5.2 mm stretchable
WMB Multi marking system, white, 10 strips with 10 markers per card, 5 5.2 mm stretchable
Marking strip, plain, 11 mm wide, 50 m reel
Marker carrier, for 35 / 50 / 95 mm² POWER CAGE CLAMP Width 10.4 mm
Test plug adapter, 11.6 mm wide, for 4 mm Ø test plug, for 1.5 16 mm² terminal blocks
Strain relief plate, gray

Accessories (Selection)

IEC/EN 60947-7-1
1000 V
8 kV
125 A
600 V, 115 A N ; 600 V, 115 A®
POWER CAGE CLAMP
6 35 mm² / 10 2 AWG
6 35 mm² / 10 2 AWG
25 mm / 0.98 inch
16 mm / 0.63 inch
Polyamide 66 (PA 66)
only on DIN 35 x 15 rail

	Item No.	Page
gray	285-435	274
white	2009-115	780
plain	793-5501	780
white	2009-110	783
gray	285-442	783
gray	283-404	274





Appropriate marking system, WMB/WMB Inline/marking strips, see Full Line Catalog, Volume 6

Information on hazardous locations, see Section 14

Approvals and corresponding ratings, visit www.wago.com











←	86 mm/3.99 in	

2-conductor ground terminal block		
Color	Item No.	Pack. Unit
green-yellow	285-137	15
green-yellow 🛭	285-137/999-950	15

Power tap,	or 35 mm² high-current terminal
blocks	

Color	Item No.	Pack. Unit
gray	285-427	5

Power tap, with 500 mm cable, for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks

Color	Item No.	Pack. Unit
gray	283-407	25

91/8

74	A. O.

IEC/EN 60947-7-2	IEC/EN 60947-7-1	
	800 V	800 V
	8 kV	8 kV
	32 A	24 A
	600 V, 30 A NI ; 600 V, 30 A ®	
POWER CAGE CLAMP	CAGE CLAMP®	
6 35 mm² / 10 2 AWG	0.2 6 mm² / 24 10 AWG	
6 35 mm² / 10 2 AWG	0.2 6 mm² / 24 10 AWG	
25 mm / 0.98 inch	12 13 mm / 0.47 0.51 inch	
16 mm / 0.63 inch		
	8 mm / 0.315 inch	
Polyamide 66 (PA 66)		
only on DIN 35 x 15 rail; 2.3 mm thick		

	Item No.	Page
gray	285-435	274
white	2009-115	780
plain	793-5501	780
white	2009-110	783
gray	285-442	783
gray	283-404	274

	Item No.	Page
plain	793-5501	780
1-pole	769-410	274



High-Current, Rail-Mount Terminal Blocks, 50 ... 185 mm², 285 Series Description and Installation



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



Conductor termination – step 2 Insert a stripped conductor into the clamping unit until it hits backstop. Hold in this position.



Conductor termination – step 3
A short counter-clockwise rotation ② releases the locking tab. When unlocked, the T-wrench rotates clockwise, securely clamping the conductor.



For the optimal clamping force:

- · Bend conductor.
- Cut conductor to length (conductor end must be straight).
- Strip conductor.



Always observe the printed strip length!



Grounding foot
Ground conductor terminal blocks (limited to max.
120 mm²/250 kcmil per EN 60947-7-2) must be
snapped onto a 2.3 mm thick copper carrier rail.



Protective warning marker may indicate: Notice: Power is still on even after switching off the main switch!



Risk of Injury!

Do not insert fingers in the conductor entry!



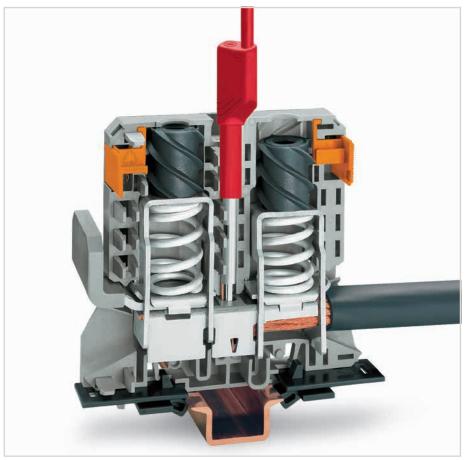
Yellow, detachable finger guards provide touchproof safety by shielding jumper contact slots and/ or unused conductor entries.



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



Removing jumper via operating tool.





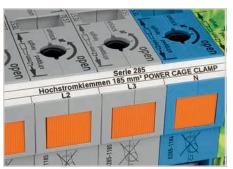
Testing via touch-proof 4 mm \emptyset test plugs (not available from WAGO, but offered by industry suppliers such as, Multi-Contact Deutschland GmbH).



Prüfen



WMB markers or self-adhesive, printable marking strips can be accommodated on 35, 50 and 95 mm² high-current terminal blocks.



In addition to WMB markers, marking strips can be directly applied to 185 mm² (350 kcmil) high-current terminal blocks.



Reliably and easily tap directly into the power supply. Insert the unwired tap before opening the clamping unit.

High-Current, Through/Ground Conductor and Ex Terminal Blocks 50 (70 "f-st") mm², 285 Series



High-current, rail-mount terminal blocks for conductors rated 35 mm² (2 AWG), 50 mm² (1/0 AWG), 95 mm² (4/0 AWG) and 185 mm² (350 kcmil)

Rail-mount terminal blocks with an Ex mark are suitable for Ex e II applications. 800 V, 134 A



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	285-150	5
blue	285-154	5
○ light gray ⓑ	285-950	5

FL

Technical Data		
Ratings per	IEC/EN 60947-7-1	
Rated voltage (III / 3)	1000 V	
Rated surge voltage (III / 3)	8 kV	
Rated current	150 A	
Approval	600 V, 150 A N ;	600 V, 150 A@
Connection Data		
Connection technology	POWER CAGE CLAMP	
Solid conductor	10 50 mm² / 8 1/0 AWG	
Fine-stranded conductor	10 70 mm² / 8 2/0 AWG	
Strip length	30 mm / 1.18 inch	
Terminal block width	20 mm / 0.787 inch	
Module width		
Insulation material	Polyamide 66 (PA 66)	
Note:	only on DIN 35 x 15 rail	
Accessories (Selection)		Item No.
Adjacent jumper, insulated, I _N 150 A	gray	285-450
WMB Inline, plain, 1,500 WMB markers (5 mm) per	white	2009-115

reel, 5 ... 5.2 mm stretchable

ge symbol, for 5 terminal blocks

CLAMP Width 10.4 mm

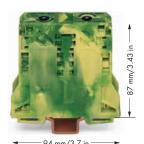
WMB Multi marking system, white, 10 strips with 10 markers per card, 5 ... 5.2 mm stretchable Marking strip, plain, 11 mm wide, 50 m reel Marker carrier, for 35 / 50 / 95 mm² POWER CAGE

Protective warning marker, with black high-volta-

	Item No.	Page
gray	285-450	275
white	2009-115	780
plain	793-5501	780
white	2009-110	783
gray	285-442	783

Accessories (jumpers, etc.), see page 275	
Carrier rails and tools, see Section 13	
Appropriate marking system, WMB/WMB Inline/marking strips, see Full Line Catalog, Volume 6	
Information on hazardous locations, see Section 14	
∞ 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Approvals and corresponding ratings, visit www.wago.com	





	-	74 11111/ 3.7	111	
or	aroun	d terminal	l block	

2-conductor ground terminal block		
Color	Item No.	Pack. Unit
green-yellow	285-157	5
green-yellow &	285-157/999-950	5



Power tap, for 50 mm² high-current terminal blocks		
Color	Item No.	Pack. Unit
gray :	285-447	5

91/@

91/@

IEC/EN 60947-7-2	IEC/EN 60947-7-1
	1000 V
	8 kV
	41 A
	600 V, 30 A N ; 600 V, 30 A®
POWER CAGE CLAMP	CAGE CLAMP®
10 50 mm² / 8 1/0 AWG	0.2 6 mm² / 24 10 AWG
10 70 mm² / 8 2/0 AWG	0.2 6 mm² / 24 10 AWG
30 mm / 1.18 inch	12 13 mm / 0.47 0.51 inch
20 mm / 0.787 inch	
	16 mm / 0.63 inch
Polyamide 66 (PA 66)	
only on DIN 35 x 15 rail; 2.3 mm thick	

	Item No.	Page
gray	285-450	275
white	2009-115	780
plain	793-5501	780
white	2009-110	783
gray	285-442	783

	Item No.	Page
plain	793-5501	780
yellow	282-415	275



High-Current, Through/Ground Conductor and Ex Terminal Blocks 95 mm², 285 Series



Rail-mount terminal blocks with an Ex mark are suitable for Ex e II applications. 25 ... 95 mm² / 4 ... 4/0 AWG 880 V, 211 A 1 jumper, 211 A 2 ... 4 jumpers, 175 A 35 ... 70 mm² / 2 ... 2/0 AWG ground conductor terminal blocks



2-conductor through terminal block			
Color	Item No.	Pack. Unit	
gray	285-195	5	
blue	285-194	5	
O light gray 🛭	285-995	5	

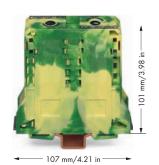
916

	91 @		
Technical Data			
Ratings per	IEC/EN 6094	7-7-1	
Rated voltage (III / 3)	1000 V		
Rated surge voltage (III / 3)	8 kV		
Rated current	232 A		
Approval	600 V, 115 A	91 ; 600 V, 115 A@	
Connection Data			
Connection technology	POWER CAG	E CLAMP	
Solid conductor	25 95 mm²	? / 4 4/0 AWG	
Fine-stranded conductor			
Connection Data (2)			
Solid conductor (2)			
Fine-stranded conductor (2)			
Strip length	35 mm / 1.38	35 mm / 1.38 inch	
Terminal block width	25 mm / 0.98	25 mm / 0.984 inch	
Module width			
Insulation material	Polyamide 66 (PA 66)		
Note:	only on DIN 35 x 15 rail		
Accessories (Selection)		Item No.	Page
Adjacent jumper, insulated, I _N 232 A	gray	285-495	276
WMB Inline, plain, 1,500 WMB markers (5 mm) per reel, 5 5.2 mm stretchable	white	2009-115	780
WMB Multi marking system, white, 10 strips with 10 markers per card, 5 5.2 mm stretchable	plain	793-5501	780
Marking strip, plain, 11 mm wide, 50 m reel	white	2009-110	783
Marker carrier, for 35 / 50 / 95 $\rm mm^2$ POWER CAGE CLAMP Width 10.4 $\rm mm$	gray	285-442	783
Protective warning marker, with black high-voltage symbol, for 5 terminal blocks			

Accessories (jumpers, etc.), see page 276
Carrier rails and tools, see Section 13
Appropriate marking system, WMB/WMB Inline/marking strips, see Full Line Catalog, Volume 6
Information on hazardous locations, see Section 14
Approvals and corresponding ratings, visit www.wago.com







,	
-conductor ground terminal block	

2-conductor ground terminal block			
Color	Item No.	Pack. Unit	
green-yellow	285-197	5	
green-yellow &	285-197/999-950	5	



Power tap, for 95 mm² high-current terminal blocks			
Color	Item No.	Pack. Unit	
gray	285-407	5	

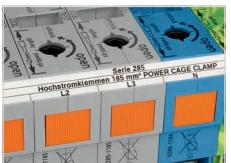
IEC/EN 60947-7-2	IEC/EN 60947-7-1
	1000 V
	8 kV
	57 A
	600 V, 50 A RI
POWER CAGE CLAMP	CAGE CLAMP®
25 95 mm² / 4 3/0 AWG	0.2 10 mm² / 24 8 AWG
	0.2 10 mm² / 24 8 AWG
	0.2 16 mm² / 24 8 AWG
	0.2 16 mm² / 24 8 AWG
35 mm / 1.38 inch	12 13 mm / 0.47 0.51 inch
25 mm / 0.984 inch	
	20 mm / 0.787 inch
Polyamide 66 (PA 66)	Polyamide 66 (PA 66)

	Item No.	Page
gray	285-495	276
white	2009-115	780
plain	793-5501	780
white	2009-110	783
gray	285-442	783

	Item No.	Page
plain	793-5501	780
yellow	284-415	276

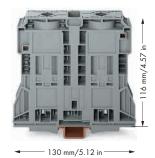


High-Current, Through and Ground Conductor Terminal Blocks 185 mm², 285 Series



In addition to WMB markers, marking strips can be directly applied to 185 mm² (350 kcmil) high-current terminal blocks.

Rail-mount terminal blocks with an Ex mark are suitable for Ex e II applications. 800 V, 101 A



2-conductor through terminal block			
Color	Item No.	Pack. Unit	
gray	285-1185	5	
blue	285-1184	5	



Tapping directly into the power supply.

Technical Data

Ratings per	
Voltage type	
Rated voltage (III / 3)	
Rated surge voltage (III / 3)	
Voltage type (2)	
Rated voltage (III / 3) (2)	
Rated surge voltage (III / 3) (2)	
Rated current	
Approval	
Connection Data	
Connection technology	
Solid conductor	
Stranded conductor	
Fine-stranded conductor	
Fine-stranded conductor with insulated fer	rule
Fine-stranded conductor with uninsulated ferrule	
Connection Data (2)	
Solid conductor (2)	
Fine-stranded conductor (2)	
Strip length	
Terminal block width	
Module width	
Insulation material	

Accessories (Selection)

Adjacent jumper, insulated, $I_{\text{\tiny N}}\,309~\text{A}$

Note:

reel, 5 5.2 m	m stretchab	le		
WMB Multi mai 10 markers pe				
Marking strip, p	olain, 11 mm	wide, 50 ı	m reel	

WMB Inline, plain, 1,500 WMB markers (5 mm) per

Protective warning marker, with black high-voltage symbol, for 5 terminal blocks

IEC/EN 60947-7-1	
AC/DC	
1000 V	
12 kV	
DC	
1500 V	
12 kV	
353 A	

POWER CAGE CLAMP
50 185 mm² / 1/0 AWG 350 kcmil
50 185 mm² / 1/0 AWG 350 kcmil
50 185 mm² / 1/0 AWG 350 kcmil
50 150 mm² / 1/0 AWG 300 kcmil, 45 mm
50 185 mm² / 1/0 AWG 350 kcmil

1000 V, 310 A@

32 mm / 1.26 inch	
Polyamide 66 (PA 66)	

45 ... 47 mm / 1.77 ... 1.85 inch

only on DIN 35 x 15 rail

	item No.	Page
gray	285-1171	277
white	2009-115	780
plain	793-5501	780
white	2009-110	783



Carrier rails and tools, see Section 13

Appropriate marking system, WMB/WMB Inline/marking strips, see Full Line Catalog, Volume 6

Approvals and corresponding ratings, visit www.wago.com





— 130 mm/5.12 in — ►

2-conductor groun	nd terminal block	
Color	Item No.	Pack. Unit
areen-vellow	285-1187	5



Power tap, for 95 mm² high-current terminal blocks		
Color	Item No.	Pack. Unit
gray	285-1175	5

(F

IEC/EN 60947-7-2		IEC/EN 6094	47-7-1		
			1000 V		
			8 kV		
			57 A		
POWER CAG	GE CLAMP		CAGE CLAN	1P®	
50 120 m	m² / 1/0 AWG 250 kg	emil	0.2 10 mn	n² / 24 8 AWG	
50 120 m	m² / 1/0 AWG 250 kg	cmil			
50 120 mm² / 1/0 AWG 250 kcmil		0.2 10 mn	n² / 24 8 AWG		
50 120 m	m² / 1/0 AWG 250 kg	cmil, 45 mm			
50 120 m	m² / 1/0 AWG 250 kg	emil			
			0.2 16 mn	n² / 24 8 AWG	
			0.2 16 mn	n² / 24 8 AWG	
45 47 mm	n / 1.77 1.85 inch		12 13 mm	1 / 0.47 0.51 inch	
32 mm / 1.2	6 inch				
		20 mm / 0.7	87 inch		
Polyamide 66 (PA 66)		Polyamide 6	66 (PA 66)		
only on DIN	35 x 15 rail; 2.3 mm thi	ck, copper			
	Item No.	Page		Item No.	Page
gray	285-1171	277			
white	2009-115	780			
plain	793-5501	780	plain	793-5501	780



white

2009-110

783

yellow

284-415

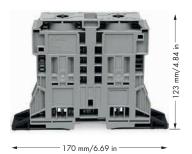
277

Цены, наличие на сайте

High-Current, Through Terminal Blocks with Screw Flanges 185 mm², 285 Series



Optionally, insert block-to-block connector (285-1179) into housing slot.



2-conductor through terminal block with screw flanges		
Color	Item No.	Pack. Unit
gray	285-1161	4
blue	285-1164	4



Align and snap high-current, through terminal blocks together.

_	iconincai bata
	Ratings per
	Voltage type
	Rated voltage (III / 3)
	Rated surge voltage (III / 3)
	Voltage type (2)
	Rated voltage (III / 3) (2)
	Rated surge voltage (III / 3) (2)
	Rated current

Technical Data

Rated current
onnection Data
Solid conductor
Stranded conductor
Fine-stranded conductor
Fine-stranded conductor with insulated ferrule
Fine-stranded conductor with uninsulated

rerruie	
Strip length	
Terminal block width	
Insulation material	

Note:
Accessories (Selection)

Adjacent jumper, insulated, I_N 309 A Block-to-block connector, for 185 mm² high-current terminal blocks WMB Inline, plain, 1,500 WMB markers (5 mm) per

reel, 5 ... 5.2 mm stretchable

WMB Multi marking system, white, 10 strips with
10 markers per card, 5 ... 5.2 mm stretchable

Marking strip, plain, 11 mm wide, 50 m reel

IEC/EN 60947-7-1
AC/DC
1000 V
12 kV
DC
1500 V
12 kV
353 A
50 185 mm² / 1/0 AWG 350 kcmil
50 185 mm² / 1/0 AWG 350 kcmil
50 185 mm² / 1/0 AWG 350 kcmil
50 150 mm² / 1/0 AWG 300 kcmil, 45 mm
50 185 mm² / 1/0 AWG 350 kcmil
45 47 mm / 1.77 1.85 inch
32 mm / 1.26 inch
Polyamide 66 (PA 66)
only on DIN 35 x 15 rail

	Item No.	Page
gray	285-1171	277
orange	285-1179	277
white	2009-115	780
plain	793-5501	780
white	2009-110	783



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

Accessories (jumpers, etc.), see page 277

Appropriate marking system, WMB/WMB Inline/marking strips, see Full Line Catalog, Volume 6

Approvals and corresponding ratings, visit www.wago.com





▼ 170 mm/6.69 in **▼**

2-conductor ground terminal block with screw flanges		
Color	Item No.	Pack. Unit
dark gray/yellow	285-1167	4

IEC/EN 60947-7-2
AC/DC
1000 V
12 kV
DC
1500 V
12 kV
353 A
50 185 mm² / 1/0 AWG 350 kcmil
50 185 mm² / 1/0 AWG 350 kcmil
50 185 mm² / 1/0 AWG 350 kcmil
50 150 mm² / 1/0 AWG 300 kcmil, 45 mm
50 185 mm² / 1/0 AWG 350 kcmil
45 47 mm / 1.77 1.85 inch
32 mm / 1.26 inch
Polyamide 66 (PA 66)
only on DIN 35 x 15 rail; 2.3 mm thick, copper

	Item No.	Page
gray	285-1171	277
orange	285-1179	277
white	2009-115	780
plain	793-5501	780
white	2009-110	783

