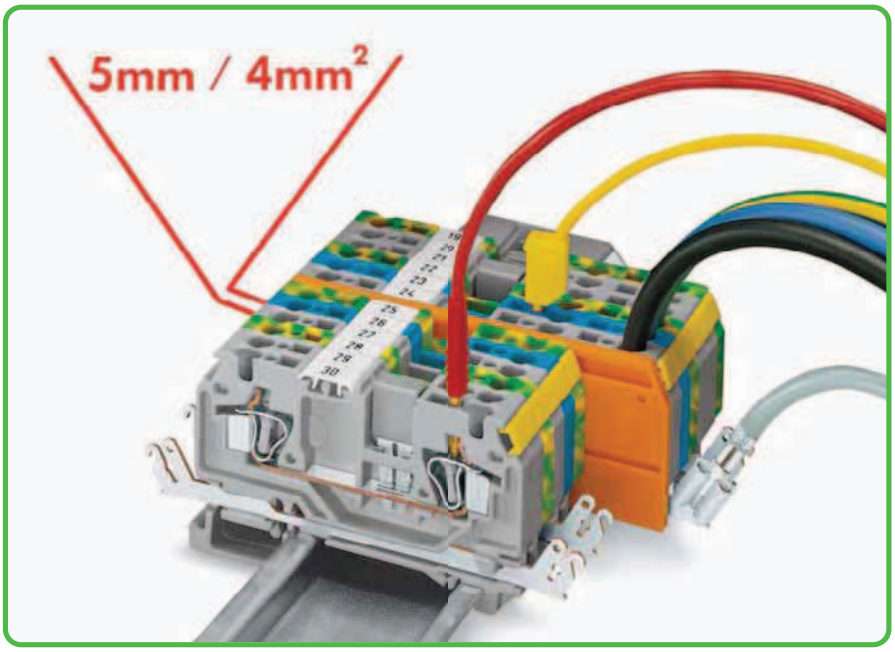
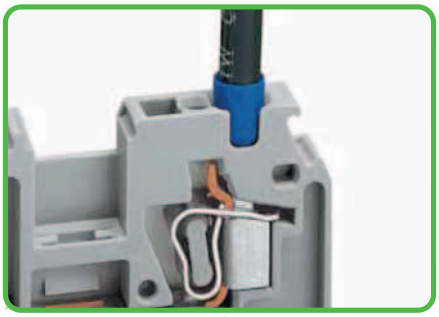
880 Series Features



With/without shield contact

Features
- 2-, 3- and 4-conductor terminal blocks, only 5 mm/0.197 in wide
- Conductor cross section up to 4 mm² (per VDE 0281), or
  * AWG 12 with ferrule (Item No. 216-206)
  * 2.5 mm²/AWG 14 with rubber-insulated conductors having a diameter up to 4.4 mm (0.173 in)
- Shield contact, solder contact /quick-connect contact 6.3 (2 x 2.8) mm
- Test plug, red, 2 mm Ø
- Test plug, yellow, 2.3 mm Ø
- WMB marking
- Miniature WSB marking, on both sides
- Commoning with standard WAGO jumper system



Using a AWG 12 cable with ferrule
(Item No. 216-206)

❶ 800 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
cULus 600 V/20 A
with shield contact
400 V/6 kV/3
cULus 300 V/10 A
(also see Section 14)

❷ Strip length, see packaging or instructions.

❸ Suitable for Ex i applications

❹ See application notes for:
Test plug modules, pages 194 – 196
Banana plug, page 198
Insulation stop, page 199
Comb-style jumper bar, page 200
Operating tool, page 200
Staggered jumper, page 201
Push-in type wire jumper, page 201

880 Series Accessories

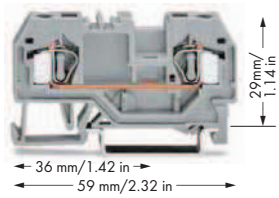
Test plug,			
	with 500 mm cable, 2.3 mm Ø		
	yellow	**210-137**	50
Test plug,			
	with 500 mm cable, 2 mm Ø		
	red	**210-136**	50
Test plug adapter, 5 mm wide,			
	for terminal blocks 1.5 - 4 mm², for 210-137 test plug 2.3 mm Ø		
	gray	**280-404**	100 (4x25)
Test plug adapter, 8.3 mm wide,			
	for terminal blocks 1.5 - 10 mm², for test plug 4 mm Ø		
	gray	**209-170**	50 (2x25)
Banana plug,			
	❹ for socket 4 mm Ø, color mixed		
		215-111	50
Test plug adapter, 6 mm wide,			
	with CAGE CLAMP®, for 0.08 - 2.5 mm²		
	I_N 24 A	**281-407**	100 (4x25)
WMB Inline, plain,			
	stretchable 5 - 5.2 mm, 1,500 WMB markers, 5 mm, on roll		
	white	**2009-115**	1
WMB Multi marking system,			
	10 strips with 10 markers per card, stretchable 5 - 5.2 mm		
	plain	**793-5501**	5
Miniature WSB Quick marking system,			
	10 strips with 10 markers per card, 5 mm wide markers		
	plain	**248-501**	5
Screwless end stop,			
	for DIN 35 rail, 6 mm wide		
	gray	**249-116**	100 (4x25)
Screwless end stop,			
	for DIN 35 rail, 10 mm wide		
	gray	**249-117**	50 (2x25)

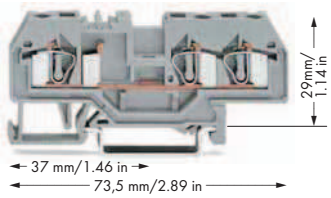
Through/Ground Conductor/Shield and Ex Terminal Blocks 4 mm²
281 Series

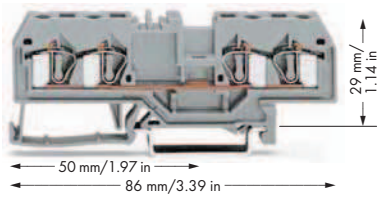
0.08 - 4 mm²	AWG 28 - 12	
800 V/8 kV/3 ❶	600 V, 20 A	
I_N 32 A	600 V, 25 A	
Terminal block width 6 mm / 0.236 in		
9 - 10 mm / 0.37 in ❷		

0.08 - 4 mm²	AWG 28 - 12	
800 V/8 kV/3 ❶	600 V, 20 A	
I_N 32 A	600 V, 25 A	
Terminal block width 6 mm / 0.236 in		
9 - 10 mm / 0.37 in ❷		

0.08 - 4 mm²	AWG 28 - 12	
800 V/8 kV/3 ❶	600 V, 20 A	
I_N 26 A	600 V, 25 A	
Terminal block width 6 mm / 0.236 in		
9 - 10 mm / 0.37 in ❷		







	Item No.	Pack. Unit
2-conductor through terminal block		
gray	**281-901**	50
blue	**281-904** ❸	50
orange	**281-902**	50
red	**281-903**	50
black	**281-905**	50
yellow	**281-906**	50
light gray Ex	**281-992** ❹	50
2-conductor ground terminal block		
green-yellow	**281-907**	50
green-yellow Ex	**281-907/999-950** ❹	50
Other terminal blocks with the same profile:		
Diode	**281-915/281-410**	Page 258
Disconnect	**281-912**	Page 208
Carrier	**281-916**	Page 230

	Item No.	Pack. Unit
3-conductor through terminal block		
gray	**281-681**	50
blue	**281-684** ❸	50
orange	**281-678**	50
red	**281-679**	50
black	**281-685**	50
yellow	**281-686**	50
light gray Ex	**281-993** ❹	50
3-conductor ground terminal block		
green-yellow	**281-687**	50
green-yellow Ex	**281-687/999-950** ❹	50
Other terminal blocks with the same profile:		
Diode	**281-673/281-410**	Page 258
Disconnect	**281-683**	Page 208
Carrier	**281-610**	Page 230

	Item No.	Pack. Unit
4-conductor through terminal block		
gray	**281-652**	50
blue	**281-654** ❸	50
orange	**281-653**	50
red	**281-663**	50
black	**281-664**	50
yellow	**281-668**	50
light gray Ex	**281-994** ❹	50
4-conductor ground terminal block		
green-yellow	**281-657**	50
green-yellow Ex	**281-657/999-950** ❹	50
4-conductor shield terminal block		
white	**281-658**	50
Other terminal blocks with the same profile:		
Diode	**281-665/281-410**	Page 258
Disconnect	**281-659**	Page 208
Disc., test & meas.	**281-666**	Page 208
Carrier	**281-656**	Page 230

Item-Specific Accessories

End and intermediate plate, 2.5 mm thick			
	orange	**281-329**	100 (4x25)
	gray	**281-328**	100 (4x25)
	light gray	**281-349**	100 (4x25)
Separator, oversized, 2 mm thick			
	orange	**281-331**	100 (4x25)
	gray	**281-330**	100 (4x25)
	light gray	**281-350**	100 (4x25)
Ex e/Ex i separator, orange,			
	3 mm thick		
	120 mm	**209-191**	50 (2x25)
	90 mm	**209-190**	50 (2x25)

Item-Specific Accessories

End and intermediate plate, 2.5 mm thick			
	orange	**281-326**	100 (4x25)
	gray	**281-324**	100 (4x25)
	light gray	**281-355**	100 (4x25)
Separator, oversized, 2 mm thick			
	orange	**281-346**	100 (4x25)
	gray	**281-344**	100 (4x25)
	light gray	**281-356**	100 (4x25)
Ex e/Ex i separator, orange,			
	3 mm thick		
	120 mm	**209-191**	50 (2x25)

Item-Specific Accessories

End and intermediate plate, 2.5 mm thick			
	orange	**281-335**	100 (4x25)
	gray	**281-334**	100 (4x25)
	light gray	**281-345**	100 (4x25)
Separator, oversized, 2 mm thick			
	orange	**281-339**	100 (4x25)
	gray	**281-338**	100 (4x25)
	light gray	**281-347**	100 (4x25)
Ex e/Ex i separator, orange,			
	3 mm thick		
	120 mm	**209-191**	50 (2x25)
Cover plate,			
	1 mm thick		
	gray	**284-336**	100
	orange	**284-346**	100

281 Series Accessories

Appropriate marking systems: WMB/WFB
(see Section 13)

Insulation stop,			
❺	5 pcs/strip,		
	0.08 - 0.2 mm² "s" (0.14 mm² "f-st")		
	white	**281-470**	200 (8x25)

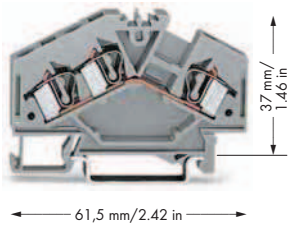
Insulation stop,			
❺	5 pcs/strip,		
	0.25 - 0.5 mm²		
	light gray	**281-471**	200 (8x25)

Insulation stop,			
❺	5 pcs/strip,		
	0.25 - 1.5 mm²		
	dark gray	**281-472**	200 (8x25)

For list of approvals and user guide, see pages 634 to 637.

0.08 - 4 mm²	AWG 28 - 12
800 V/8 kV/3 ❶	600 V, 20 A
I_N 32 A	600 V, 25 A

Terminal block width 6 mm / 0.236 in
9 - 10 mm / 0.37 in ❷



❶ 800 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❷ Strip length, see packaging or instructions.

❸ Suitable for Ex i applications

❹ Suitable for Ex e II applications
0.2 mm² - 4 mm²/AWG 24 - 12
550 V, 30 A
(also see Section 14)
Using staggered jumpers reduces the maximum rated voltage to 275 V.

❺ See application notes for:
Test plug modules, pages 194 – 196
Banana plug, page 198
Insulation stop, page 199
Comb-style jumper bar, page 200
Operating tool, page 200
Staggered jumper, page 201
Push-in type wire jumper, page 201
Step-down jumper, pages 178 – 179

	Item No.	Pack. Unit
3-conductor through terminal block		
gray	**281-631**	100
blue	**281-651** ❸	100
light gray Ex	**281-998** ❹	100
3-conductor ground terminal block		
green-yellow	**281-637**	100
green-yellow Ex	**281-637/999-950** ❹	100

Item-Specific Accessories

End and intermediate plate, 2.5 mm thick



orange	**281-313**	100 (4x25)
gray	**281-312**	100 (4x25)
light gray	**281-357**	100 (4x25)

Separator, oversized, 2 mm thick



gray	**281-318**	100 (4x25)
gray	**281-348**	100 (4x25)
light gray	**281-358**	100 (4x25)

Ex e/Ex i separator, orange,
3 mm thick



120 mm	**209-191**	50 (2x25)

Protective warning marker,



with high-voltage symbol, black,
for 5 terminal blocks

yellow	**281-415**	100 (4x25)

281 Series Accessories

Appropriate marking systems: WMB/WFB
(see Section 13)

Adjacent jumper, insulated,



$I_N = I_N$ terminal block

gray	**281-402**	200 (8x25)
yellow-green	**281-422**	200 (8x25)

Alternate jumper, insulated,



$I_N = I_N$ terminal block

gray	**281-409**	100 (4x25)

Push-in type wire jumper, ❺



insulated,
I_N 9 A,
wire size 0.75 mm²

L = 60 mm	**249-125**	10
L = 110 mm	**249-126**	10
L = 250 mm	**249-127**	10

Staggered jumper, ❺



insulated,
width 6 mm/0.236 in,
I_N 32 A

from 1 to 2	**781-452**	100 (4x25)
from 1 to 3	**781-453**	100 (4x25)
from 1 to 4	**781-454**	100 (4x25)
from 1 to 5	**781-455**	50 (2x25)
from 1 to 6	**781-456**	50 (2x25)

Comb-style jumper bar, insulated, ❺



$I_N = I_N$ terminal block

2-way	**281-482**	100 (4x25)
3-way	**281-483**	100 (4x25)
5-way	**281-485**	100 (4x25)
10-way	**281-490**	50 (2x25)

Alternate comb-style jumper bar,



insulated,
$I_N = I_N$ terminal block

2-way	**281-492**	100 (4x25)

Operating tool, of insulating material



2-way	**280-432**	1
3-way	**280-433**	1
5-way	**281-440**	1

Step-down jumper, insulated, ❺



I_N 15 A

gray	**284-414**	50 (2x25)

Step-down jumper, insulated,



I_N 30 A

gray	**284-413**	50 (2x25)

Cover plate,



1 mm thick

gray	**284-334**	100
orange	**284-344**	100

Test plug module, ❺



can be snapped together,
6 mm wide

gray	**281-418**	100 (4x25)

Spacer module,



can be snapped together,
6 mm wide

gray	**281-419**	100 (4x25)

Test plug,



with 500 mm cable,
2 mm Ø

red	**210-136**	50

Test plug,



with 500 mm cable,
2.3 mm Ø

yellow	**210-137**	50

Test plug adapter, 5 mm wide,



for terminal blocks 1.5 - 4 mm²,
for 210-137 test plug 2.3 mm Ø

gray	**280-404**	100 (4x25)

Test plug adapter, 8.3 mm wide,



for terminal blocks 1.5 - 10 mm²,
for test plug 4 mm Ø

gray	**209-170**	50 (2x25)

Banana plug, ❺



for socket 4 mm Ø,
color mixed

215-111	50

Test plug adapter, 6 mm wide,



with CAGE CLAMP®,
for 0.08 - 2.5 mm²

I_N 24 A	**281-407**	100 (4x25)

Screwless end stop,



for DIN 35 rail,
6 mm wide

gray	**249-116**	100 (4x25)

Screwless end stop,



for DIN 35 rail,
10 mm wide

gray	**249-117**	50 (2x25)

Through/Ground Conductor and Ex Terminal Blocks 6 mm²
282 Series

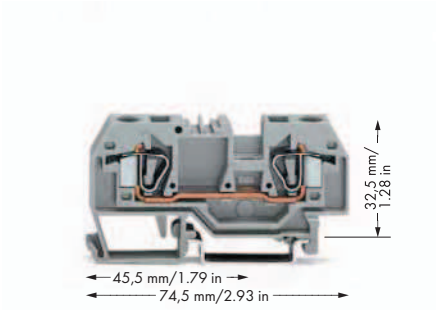
CAGE CLAMP®

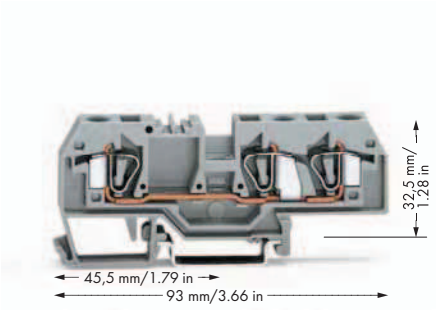
0.2 - 6 mm²	AWG 24 - 10
800 V/8 kV/3 ❶	600 V, 30 A
I_N 41 A	600 V, 40 A

Terminal block width 8 mm / 0.315 in
12 - 13 mm / 0.49 in ❷

0.2 - 6 mm²	AWG 24 - 10
800 V/8 kV/3 ❶	600 V, 30 A
I_N 41 A	600 V, 40 A

Terminal block width 8 mm / 0.315 in
12 - 13 mm / 0.49 in ❷





❶ 800 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❷ Strip length, see packaging or instructions.

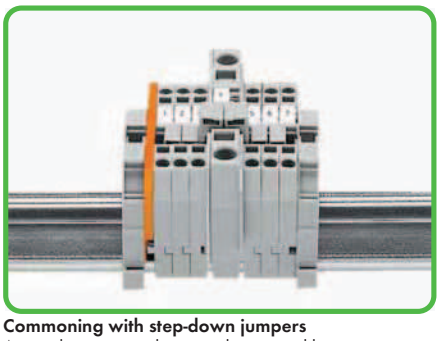
❸ Suitable for Ex i applications

❹ Suitable for Ex e II applications
0.5 mm² - 6 mm²/AWG 20 - 10
550 V, 39 A
Jumper 35 A
(also see Section 14)

❺ See application notes for:
Test plug module, page 197
Banana plug, page 198
Step-down jumper, pages 178 – 179

	Item No.	Pack. Unit
2-conductor through terminal block		
gray	**282-901**	50
blue	**282-904** ❸	50
orange	**282-902**	50
light gray Ex	**282-992** ❹	50
2-conductor ground terminal block		
green-yellow	**282-907**	50
green-yellow Ex	**282-907/999-950** ❹	50

	Item No.	Pack. Unit
3-conductor through terminal block		
gray	**282-681**	25
blue	**282-684** ❸	25
orange	**282-682**	25
light gray Ex	**282-993** ❹	50
3-conductor ground terminal block		
green-yellow	**282-687**	25
green-yellow Ex	**282-687/999-950** ❹	50



Commoning with step-down jumpers
A step-down cover plate must be inserted between terminal blocks to be jumpered. Step-down jumper 284-414 commons 10/6 mm²/AWG 8/10 terminal blocks with 4/2.5/1.5 mm²/AWG 12/14/16 terminal blocks.

Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers.



Commoning with step-down jumpers
A step-down cover plate must be inserted between terminal blocks to be jumpered. Step-down jumper 284-413 commons 10/6 mm²/AWG 8/10 terminal blocks with 6/4 mm²/AWG 10/12 terminal blocks.

Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers.

Note:
The total current flowing shall not exceed the rating of the step-down jumper.

Item-Specific Accessories

End and intermediate plate, 2.5 mm thick			
	orange	**282-328**	100 (4x25)
	gray	**282-325**	100 (4x25)
	light gray	**282-330**	100 (4x25)
Separator, oversized, 2 mm thick			
	orange	**282-329**	100 (4x25)
	gray	**282-326**	100 (4x25)
	light gray	**282-331**	100 (4x25)
Cover plate,			
	1 mm thick		
	gray	**282-357**	25
	orange	**282-367**	25

Item-Specific Accessories

End and intermediate plate, 2.5 mm thick			
	orange	**282-339**	100 (4x25)
	gray	**282-308**	100 (4x25)
	light gray	**282-341**	100 (4x25)
Separator, oversized, 2 mm thick			
	orange	**282-340**	100 (4x25)
	gray	**282-309**	100 (4x25)
	light gray	**282-342**	100 (4x25)
Cover plate,			
	1 mm thick		
	gray	**282-358**	25
	orange	**282-368**	25

282 Series Accessories

Appropriate marking systems:
WMB/WFB (see Section 13)

Ex e/Ex i separator, orange,			
	3 mm thick		
	120 mm	**209-191**	50 (2x25)
Adjacent jumper, insulated,			
	I_N 41 A		
	gray	**282-402**	100 (4x25)
	yellow-green	**282-422**	100 (4x25)
Alternate jumper, insulated,			
	I_N 41 A		
	gray	**282-409**	100 (4x25)
Protective warning marker,			
	with high-voltage symbol, black,		
	for 5 terminal blocks		
	yellow	**282-415**	100 (4x25)
Step-down jumper, insulated,			
❺	I_N 15 A		
	gray	**284-414**	50 (2x25)

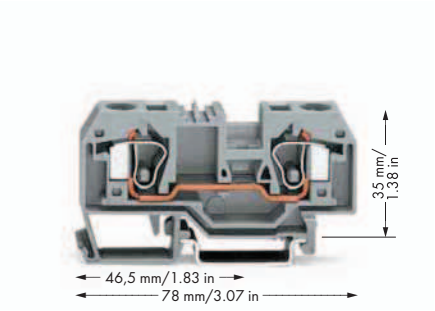
Step-down jumper, insulated,			
	I_N 30 A		
	gray	**284-413**	50 (2x25)
Test plug adapter, 8.3 mm wide,			
	for terminal blocks 1.5 - 10 mm²,		
	for test plug 4 mm Ø		
	gray	**209-170**	50 (2x25)
Banana plug,			
❺	for socket 4 mm Ø,		
	color mixed		
		215-111	50
B-type test plug module,			
❺	can be snapped together,		
	8 mm wide		
	gray	**709-310**	100 (4x25)
B-type spacer module,			
	can be snapped together,		
	8 mm wide		
	gray	**709-311**	100 (4x25)

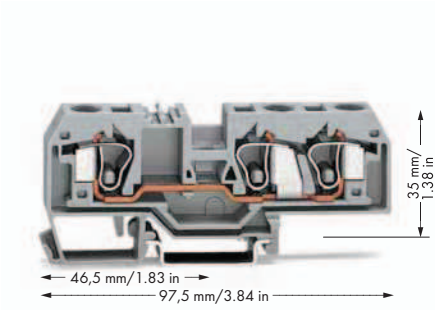
For list of approvals and user guide, see pages 634 to 637.

Through/Ground Conductor and Ex Terminal Blocks 10 mm²
284 Series

0.2 - 10 mm²	AWG 24 - 8
800 V/8 kV/3 ❶	600 V, 50 A
I_N 57 A	600 V, 54 A
Terminal block width 10 mm / 0.394 in	
12 - 13 mm / 0.49 in ❷	

0.2 - 10 mm²	AWG 24 - 8
800 V/8 kV/3 ❶	600 V, 50 A
I_N 57 A	600 V, 54 A
Terminal block width 10 mm / 0.394 in	
12 - 13 mm / 0.49 in ❷	





❶ 800 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❷ Strip length, see packaging or instructions.

❸ Suitable for Ex e II applications
0.5 mm² - 10 mm²/AWG 20 - 8
550 V, 53 A
(also see Section 14)

❹ See application notes for:
Test plug module, page 197
Banana plug, page 198
Step-down jumper, pages 178 – 179

	Item No.	Pack. Unit
2-conductor through terminal block		
gray	**284-901**	25
blue	**284-904**	25
orange	**284-902**	25
light gray	**284-992** ❸	25
2-conductor ground terminal block		
green-yellow	**284-907**	25
green-yellow	**284-907/999-950** ❸	25

	Item No.	Pack. Unit
3-conductor through terminal block		
gray	**284-681**	25
blue	**284-684**	25
orange	**284-682**	25
light gray	**284-993** ❸	25
3-conductor ground terminal block		
green-yellow	**284-687**	25
green-yellow	**284-687/999-950** ❸	25



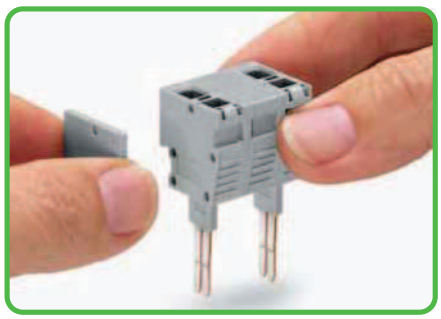
Inserting a finger guard seals unused conductor entries.

Item-Specific Accessories

End and intermediate plate, 2.5 mm thick			
	orange	**284-328**	100 (4x25)
	gray	**284-325**	100 (4x25)
	light gray	**284-330**	100 (4x25)
Separator, oversized, 2 mm thick			
	orange	**284-329**	100 (4x25)
	gray	**284-326**	100 (4x25)
	light gray	**284-331**	100 (4x25)
Cover plate,			
	1 mm thick		
	gray	**284-357**	25
	orange	**284-367**	25

Item-Specific Accessories

End and intermediate plate, 2.5 mm thick			
	orange	**284-339**	100 (4x25)
	gray	**284-308**	100 (4x25)
	light gray	**284-341**	100 (4x25)
Separator, oversized, 2 mm thick			
	orange	**284-340**	100 (4x25)
	gray	**284-309**	100 (4x25)
	light gray	**284-342**	100 (4x25)
Cover plate,			
	1 mm thick		
	gray	**284-358**	25
	orange	**284-368**	25



Snapping together test plug and spacer modules with spacer plates to assemble a multipole test plug module (max. 10 poles).

284 Series Accessories

Appropriate marking systems:
WMB/WFB (see Section 13)

Adjacent jumper, insulated,			
	I_N 57 A		
	gray	**284-402**	100 (4x25)
	yellow-green	**284-422**	100 (4x25)
Alternate jumper, insulated,			
	I_N 57 A		
	gray	**284-409**	50 (2x25)
Protective warning marker,			
	with high-voltage symbol, black,		
	for 5 terminal blocks		
	yellow	**284-415**	50 (2x25)
Finger guard,			
	touchproof cover protects unused		
	conductor entries		
	yellow	**284-400**	100 (4x25)
Step-down jumper, insulated,			
❹ 	I_N 15 A		
	gray	**284-414**	50 (2x25)

Step-down jumper, insulated,			
	I_N 30 A		
	gray	**284-413**	50 (2x25)
Test plug adapter, 8.3 mm wide,			
	for terminal blocks 1.5 - 10 mm²,		
	for test plug 4 mm Ø		
	gray	**209-170**	50 (2x25)
Banana plug,			
❹ 	for socket 4 mm Ø,		
	color mixed		
		215-111	50
B-type test plug module,			
❹ 	can be snapped together,		
	8 mm wide		
	gray	**709-310**	100 (4x25)
B-type spacer plate,			
	can be snapped together,		
	2 mm wide		
	gray	**709-312**	100 (4x25)

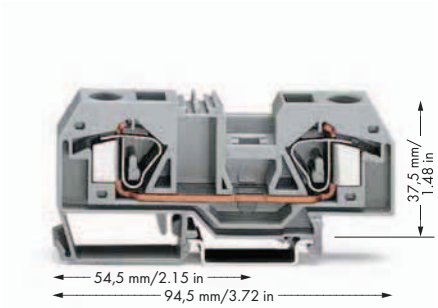
For list of approvals and user guide, see pages 634 to 637.

Through/Ground Conductor and Ex Terminal Blocks 16 mm²
283 Series

CAGE CLAMP®

0.2 - 16 mm²	AWG 24 - 6
800 V/8 kV/3 ❶	600 V, 65 A
I_N 76 A	600 V, 70 A

Terminal block width 12 mm / 0.472 in
16 - 17 mm / 0.65 in ❷



❶ 800 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❷ Strip length, see packaging or instructions.

❸ Suitable for Ex e II applications
0.5 mm² - 16 mm²/AWG 20 - 6
550 V, 68 A
Jumper 63 A
(also see Section 14)

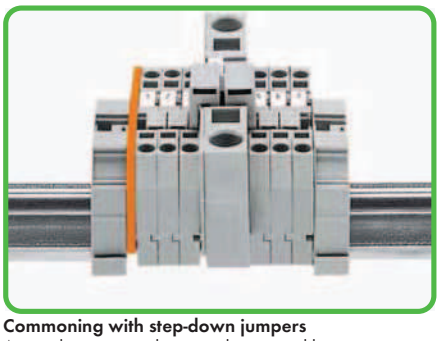
❹ See application notes for:
Banana plug, page 198
Step-down jumper, pages 178 – 179

	Item No.	Pack. Unit
2-conductor through terminal block		
gray	**283-901**	20
blue	**283-904**	20
orange	**283-902**	20
light gray	**283-992** ❸	20
2-conductor ground terminal block		
green-yellow	**283-907**	20
green-yellow	**283-907/999-950** ❸	20

283 Series Accessories

Appropriate marking systems (see Section 13)

End and intermediate plate, 2.5 mm thick			
	orange	**283-328**	50 (2x25)
	gray	**283-325**	50 (2x25)
	light gray	**283-330**	50 (2x25)
Separator, oversized, 2 mm thick			
	orange	**283-329**	50 (2x25)
	gray	**283-326**	50 (2x25)
	light gray	**283-331**	50 (2x25)
Adjacent jumper, insulated,			
	I_N 70 A		
	gray	**283-402**	50 (2x25)
	yellow-green	**283-422**	50 (2x25)
Alternate jumper, insulated,			
	I_N 76 A		
	gray	**283-409**	50 (2x25)
Protective warning marker,			
	with high-voltage symbol, black, for 5 terminal blocks		
	yellow	**283-415**	50 (2x25)
Finger guard,			
	touchproof cover protects unused conductor entries		
	yellow	**283-400**	100 (4x25)
Step-down jumper, insulated,			
❹	I_N 32 A		
	gray	**283-414**	50 (2x25)
Cover plate,			
	1 mm thick		
	gray	**283-357**	25
	orange	**283-367**	25
Test plug adapter, 11.6 mm wide,			
	for 1.5 - 16 mm² terminal blocks, for test plug 4 mm Ø		
	gray	**283-404**	25
Banana plug,			
❹	for socket 4 mm Ø, color mixed		
		215-111	50
Screwless end stop,			
	for DIN 35 rail, 6 mm wide		
	gray	**249-116**	100 (4x25)
Screwless end stop,			
	for DIN 35 rail, 10 mm wide		
	gray	**249-117**	50 (2x25)



Commoning with step-down jumpers
A step-down cover plate must be inserted between terminal blocks to be jumpered. Step-down jumper 284-414 commons 16 mm²/AWG 6 terminal blocks with 4 mm²/AWG 12 terminal blocks.

Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers.

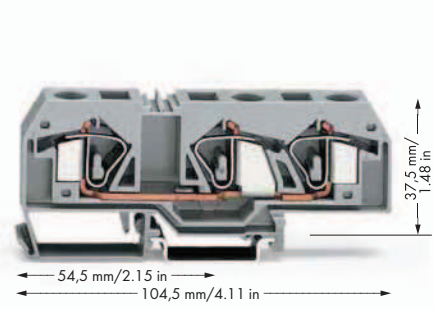
Note:
The total current flowing shall not exceed the rating of the step-down jumper.

For list of approvals and user guide, see pages 634 to 637.

Through/Ground Conductor and Ex Terminal Blocks 16 mm²
283 Series

0.2 - 16 mm²	AWG 24 - 6
800 V/8 kV/3 ❶	600 V, 65 A
I_N 76 A	600 V, 70 A

Terminal block width 12 mm / 0.472 in
16 - 17 mm / 0.65 in ❷



❶ 800 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❷ Strip length, see packaging or instructions.

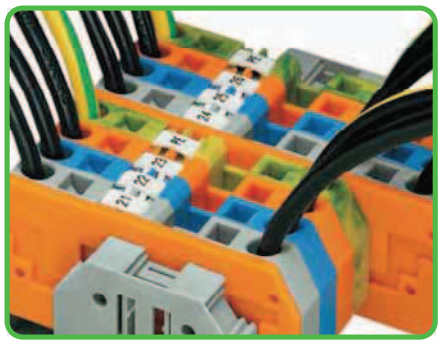
❸ Suitable for Ex e II applications
0.5 mm² - 16 mm²/AWG 20 - 6
550 V, 68 A
(also see Section 14)

	Item No.	Pack. Unit
3-conductor through terminal block		
gray	**283-671**	20
blue	**283-674**	20
orange	**283-672**	20
light gray	**283-998** ❸	20
3-conductor ground terminal block		
green-yellow	**283-677**	20
green-yellow	**283-677/999-950** ❸	20
Notice:		
These terminal blocks cannot be commoned using adjacent jumpers		

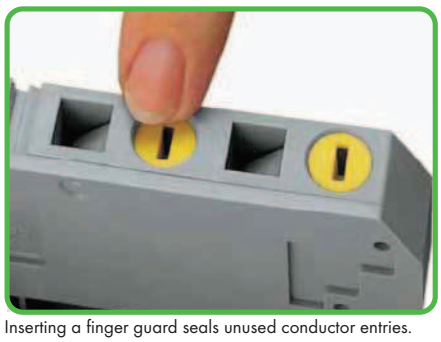
283 Series Accessories

Appropriate marking systems (see Section 13)

End and intermediate plate, 2.5 mm thick			
	orange	**283-352**	50 (2x25)
	gray	**283-350**	50 (2x25)
	light gray	**283-354**	50 (2x25)
Separator, oversized, 2 mm thick			
	orange	**283-353**	50 (2x25)
	gray	**283-351**	50 (2x25)
	light gray	**283-355**	50 (2x25)
Protective warning marker,			
	with high-voltage symbol, black, for 5 terminal blocks		
	yellow	**283-415**	50 (2x25)
Finger guard,			
	touchproof cover protects unused conductor entries		
	yellow	**283-400**	100 (4x25)
Screwless end stop,			
	for DIN 35 rail, 6 mm wide		
	gray	**249-116**	100 (4x25)
Screwless end stop,			
	for DIN 35 rail, 10 mm wide		
	gray	**249-117**	50 (2x25)



The markers are not covered by the wiring when marking terminal blocks in center position.



Inserting a finger guard seals unused conductor entries.

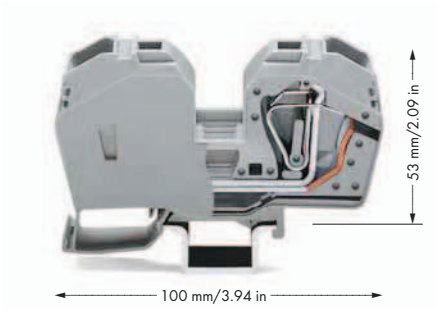
For list of approvals and user guide, see pages 634 to 637.

Through/Ground Conductor and Ex Terminal Blocks 35 mm²
285 Series

CAGE CLAMP®

6 - 35 mm²	AWG 8 - 2
1000 V/8 kV/3 ❶	600 V, 115 A
I_N 125 A	600 V, 120 A

Terminal block width 16 mm / 0.63 in
23 mm / 0.91 in ❷




Terminating a 35 mm²/AWG 2 conductor.

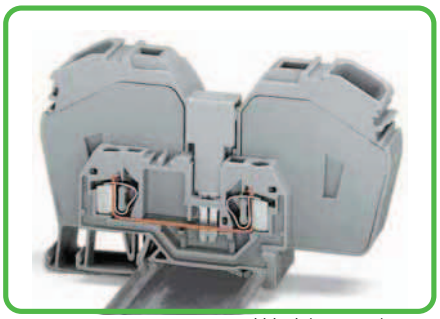
❶ 1000 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❷ Strip length, see packaging or instructions.

❸ Suitable for Ex e II applications
6 mm² - 35 mm²/AWG 8 - 2
880 V, 85 A
6 mm² - 25 mm²/AWG 8 - 4
for ground conductor terminal blocks
(also see Section 14)

	Item No.	Pack. Unit
2-conductor through terminal block,		
with integrated end plate,		
to be used exclusively on DIN 35 x 15 rail		
gray	**285-635**	15
blue	**285-634**	15
light gray Ex	**285-992** ❸	15
2-conductor ground terminal block,		
with integrated end plate,		
to be used exclusively on DIN 35 x 15 rail		
green-yellow	**285-637**	15
green-yellow Ex	**285-637/999-950** ❸	15


Protective warning markers inserted into the operating slots.

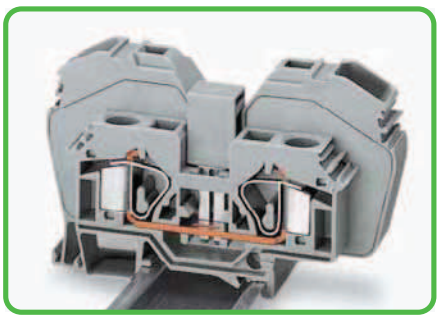

Commoning a 285 Series terminal block (35 mm²/AWG 2) with a 281 Series terminal block (4 mm²/AWG 12) using a 283-414 step-down jumper.
Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers.
Note:
The total current flowing shall not exceed the rating of the step-down jumper.

285 Series Accessories

Appropriate marking systems:
WMB/Miniature WSB/WFB

Adjacent jumper, insulated,			
	I_N 85 A		
	gray	**285-435**	50 (2x25)
Step-down jumper, insulated,			
	I_N 32 A		
	gray	**283-414**	50 (2x25)
Protective warning marker,			
	with high-voltage symbol, black,		
	for 5 terminal blocks		
	yellow	**285-416**	50 (2x25)
Finger guard,			
	touchproof cover protects unused		
	conductor entries		
	yellow	**285-401**	100
Screwless end stop,			
	for DIN 35 rail,		
	6 mm wide		
	gray	**249-116**	100 (4x25)
Screwless end stop,			
	for DIN 35 rail,		
	10 mm wide		
	gray	**249-117**	50 (2x25)


Inserting a finger guard seals unused conductor entries.

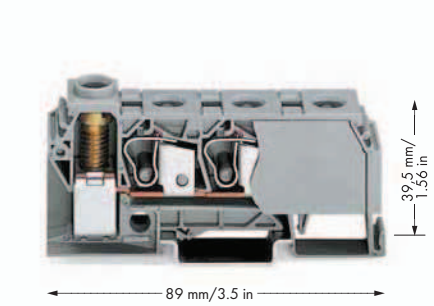

285 Series terminal blocks can be commoned with 283 Series terminal blocks: 285-635 or 285-634 with 283-601 or 283-604
(for terminal blocks with side marking, see www.wagocatalog.com).
Jumper required: 285-435.

Please note that the nominal current of adjacent jumper shall not exceed 63A.

For list of approvals and user guide, see pages 634 to 637.

Distribution Terminal blocks 3 x 10 mm² CAGE CLAMP® Connection and 1 x 35 mm² Screw Clamp Connection 284 Series

0.2 - 10 mm² ❶ | AWG 24 - 8
6 - 35 mm² ❷ | AWG 10 - 2
800 V/8 kV/3 ❸
I_N 125 A
Terminal block width 17.5 mm / 0.689 in
12 - 14 mm / 0.51 in ❹





Terminating a 35 mm²/AWG 2 conductor.
Screw clamp connection, side-entry wiring.

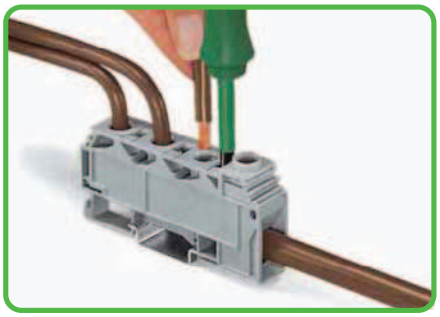
❶ CAGE CLAMP® connection
❷ Screw clamp termination
❸ 800 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)
❹ Strip length, see packaging or instructions.
❺ Individual arrangement: 125 A
Two jumpers combined in one clamping unit: 100 A

	Item No.	Pack. Unit
Distribution terminal block,		
with 3 x CAGE CLAMP® connection 10 mm² and 1 x		
screw clamp connection 35 mm²,		
Screw torque: 3.5 Nm		
gray	**284-621**	15
blue	**284-624**	15

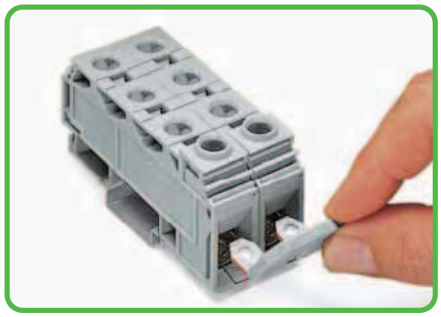
Accessories for Distribution Terminal Blocks

Appropriate marking system: WMB

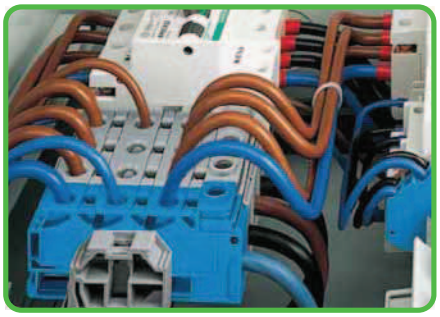
Comb-style jumper bar, insulated,			
❺	I_N 125 A for 1 jumper,		
	I_N 100 A for 2 jumpers		
	gray	**284-412**	100 (4x25)
Screwless end stop,			
	for DIN 35 rail,		
	6 mm wide		
	gray	**249-116**	100 (4x25)
Screwless end stop,			
	for DIN 35 rail,		
	10 mm wide		
	gray	**249-117**	50 (2x25)



Terminating a 10 mm²/AWG 8 conductor
CAGE CLAMP® connection, front-entry wiring.



Commoning with comb-style jumper bar.

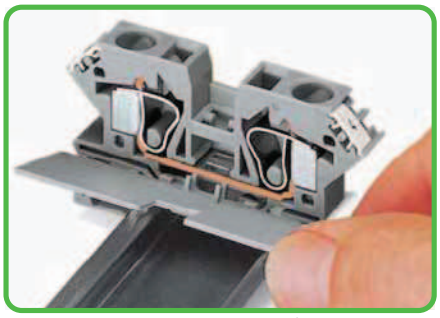


Rail-mounted distribution terminal block with 35 mm²/AWG 2 screw clamp connection (front-entry) and 3 x 10 mm²/AWG 8 front-entry CAGE CLAMP® connection.
Snaps onto DIN 35 carrier rails per EN 60675. The terminal block enclosed on both sides, an end or intermediate plate is not necessary.

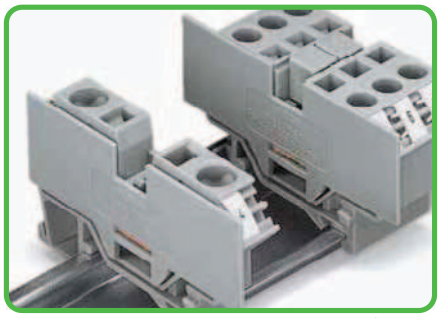
In case of maximum wiring with 3 x 10 mm²/AWG 8 on the distribution side the nominal current of 125A shall not be exceeded.

For list of approvals and user guide, see pages 634 to 637.

Step-Down Jumpers for Front-Entry Through Terminal Blocks up to 16 mm²
Front-entry terminal blocks cannot be commoned with side-entry terminal blocks



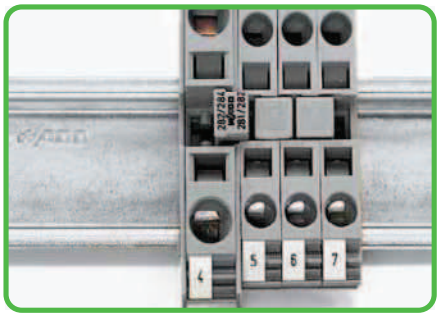
Cover plate snapped onto open side of terminal block.



Always use a cover plate also on the other side of the larger terminal block.



Commoning terminal blocks of different sizes – step down.
Push down the step-down jumper until fully inserted.



Note: Jumpers are marked with suitable terminal block sizes for correct installation.

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 drop can be a problem. 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. Further terminal blocks of the smaller cross section may be commoned using standard adjacent jumpers.

In this case, pay attention that:
1. The total current flowing does not exceed the rating of the step-down jumper.
2. The standard or special thin cover plate is installed on the open side of the larger block.



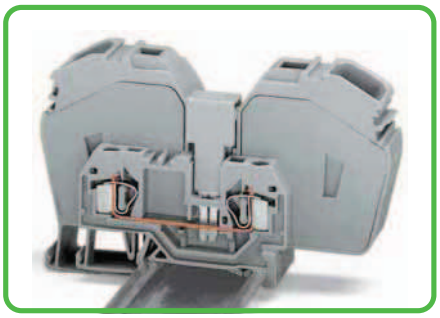
Step-down jumper commoning from 10/6 mm² (AWG 8/10) to with 4/2.5/1.5 mm² (AWG 12/14/16) terminal blocks.
I_N 15 A **284-414**



Step-down jumper commoning from 10/6 mm² (AWG 8/10) to 6/4 mm² (AWG 10/12) terminal blocks.
I_N 30 A **284-413**

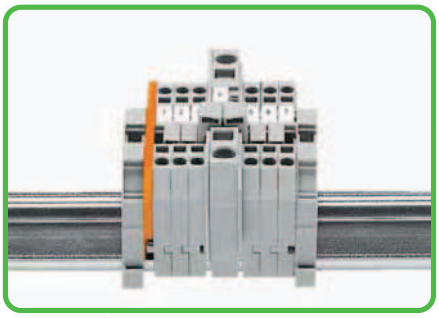


Step-down jumper commoning from 16 mm² (AWG 6) to 4 mm² (AWG 12) terminal blocks.
I_N 32 A **283-414**



The **283-414** step-down jumper can even common 35 mm² (AWG 2) **285-635** through terminal blocks with 4 mm² (AWG 12) **281-901** through terminal blocks.
For 35 mm²/AWG 12 through terminal blocks, see page 176.

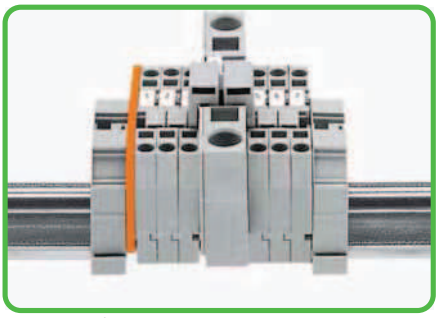
Examples of Assembly



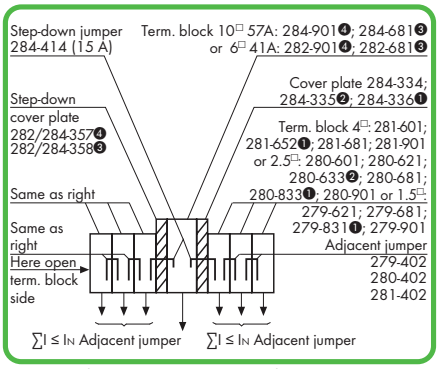
Commoning from 6 mm²/AWG 10 (282 Series) to 1.5 mm²/AWG 16 (279 Series) rail-mount terminal blocks.



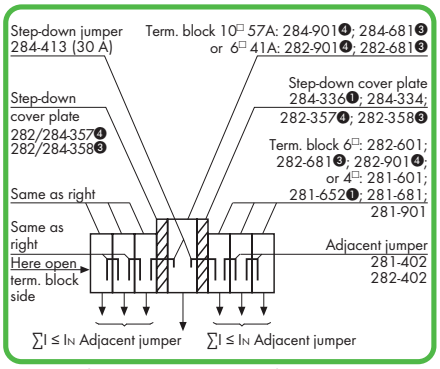
Commoning from 10 mm²/AWG 8 (284 Series) to 6 mm²/AWG 10 (282 Series) rail-mount terminal blocks.



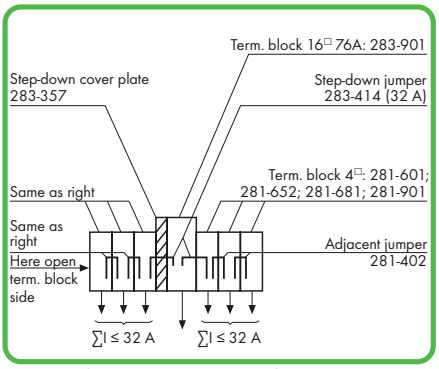
Commoning from 16 mm²/AWG 6 (283 Series) to 4 mm²/AWG 12 (281 Series) rail-mount terminal blocks.



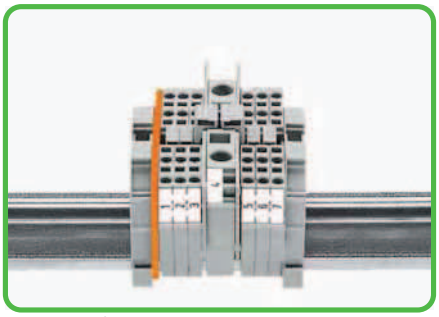
Example of assembly: "Commoning from 10/6 mm² (AWG 8/10) to 4/2.5/1.5 mm² (AWG 12/14/16) rail-mount terminal blocks with 284-414 step-down jumper."



Example of assembly: "Commoning from 10/6 mm² (AWG 8/10) to 6 mm² (AWG 10) rail-mount terminal blocks with 284-413 step-down jumper."



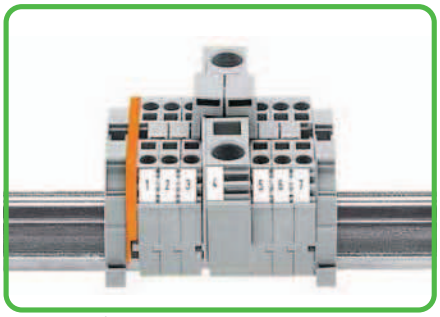
Example of assembly: "Commoning from 16 mm² (AWG 6) to 4 mm² (AWG 12) rail-mount terminal blocks with 284-414 step-down jumper."



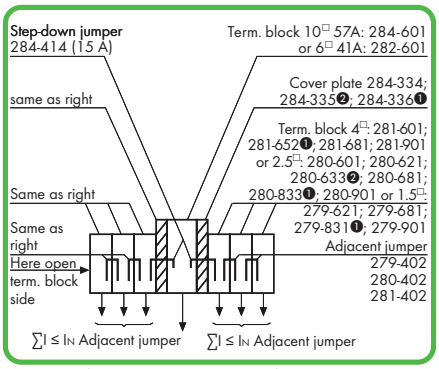
Commoning from 6 mm²/AWG 10 (282 Series) to 1.5 mm²/AWG 16 (279 Series) rail-mount terminal blocks.



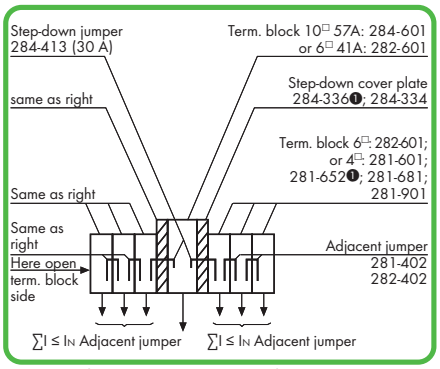
Commoning from 10 mm²/AWG 8 (284 Series) to 6 mm²/AWG 10 (282 Series) rail-mount terminal blocks.



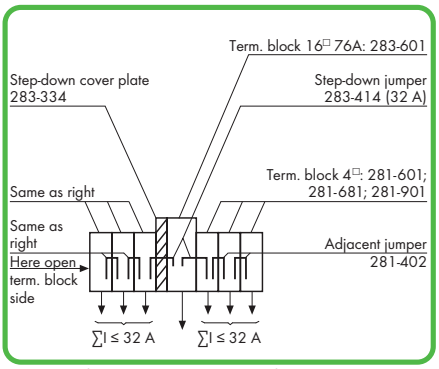
Commoning from 16 mm²/AWG 6 (283 Series) to 4 mm²/AWG 12 (281 Series) rail-mount terminal blocks.



Example of assembly: "Commoning from 10/6 mm² (AWG 8/10) to 4/2.5/1.5 mm² (AWG 12/14/16) rail-mount terminal blocks with 284-414 step-down jumper."



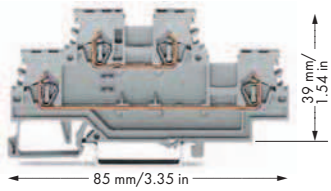
Example of assembly: "Commoning from 10/6 mm² (AWG 8/10) to 6 mm² (AWG 10) rail-mount terminal blocks with 284-413 step-down jumper."

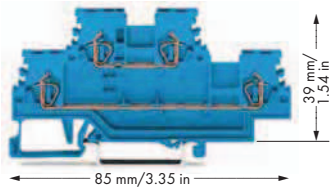


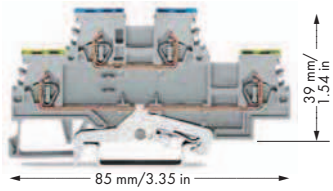
Example of assembly: "Commoning from 16 mm² (AWG 6) to 4 mm² (AWG 12) rail-mount terminal blocks with 284-414 step-down jumper."

Double-Deck Terminal Blocks 1.5 mm²
279 Series

0.08 - 1.5 mm² | AWG 28 - 16 500 V/6 kV/3 ❶ | 300 V, 10 A I_N 18 A Terminal block width 4 mm / 0.157 in 8 - 9 mm / 0.33 in ❷	0.08 - 1.5 mm² | AWG 28 - 16 500 V/6 kV/3 ❶ | 300 V, 10 A I_N 18 A Terminal block width 4 mm / 0.157 in 8 - 9 mm / 0.33 in ❷	0.08 - 1.5 mm² | AWG 28 - 16 500 V/6 kV/3 ❶ I_N 18 A Terminal block width 4 mm / 0.157 in 8 - 9 mm / 0.33 in ❷



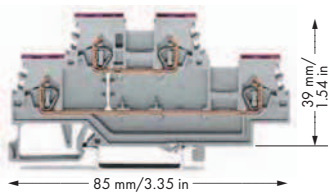


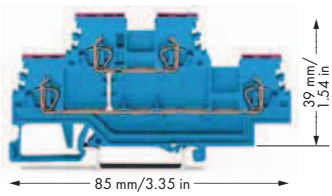


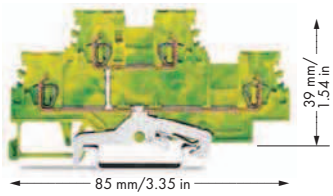
	Item No.	Pack. Unit
Through/through terminal block,		
gray housing		
L/L	**279-501**	50
N/L	**279-512**	50
L/N	**279-513**	50

	Item No.	Pack. Unit
Through/through terminal block,		
blue housing		
N/N	**279-504** ❸	50

	Item No.	Pack. Unit
Ground conductor/through terminal block,		
gray housing		
PE/N	**279-517**	50
PE/L	**279-527**	50







	Item No.	Pack. Unit
4-conductor through terminal block,		
internal commoning,		
conductor entry position colored in violet,		
gray housing		
L	**279-508**	50

	Item No.	Pack. Unit
4-conductor through terminal block,		
internal commoning,		
conductor entry position colored in violet,		
blue housing		
N	**279-509** ❸	50

	Item No.	Pack. Unit
4-conductor ground terminal block,		
internal commoning,		
green-yellow housing		
PE	**279-507**	50

For list of approvals and user guide, see pages 634 to 637.