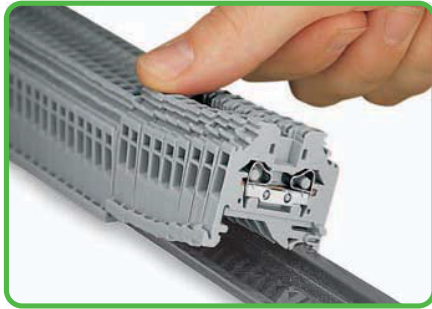


# Rail-Mounted Terminal Blocks, Side-Entry 279 to 284 Series

## Assembly



Snapping side-entry rail-mounted terminal blocks onto the carrier rail.



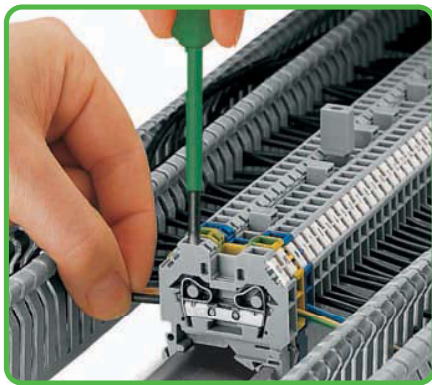
Quick assembly keys prevent reverse mounting.

## Removal



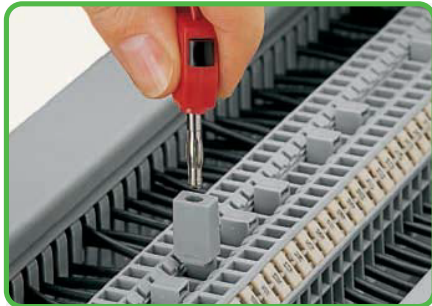
Removal from the carrier rail.

## CAGE CLAMP® connection

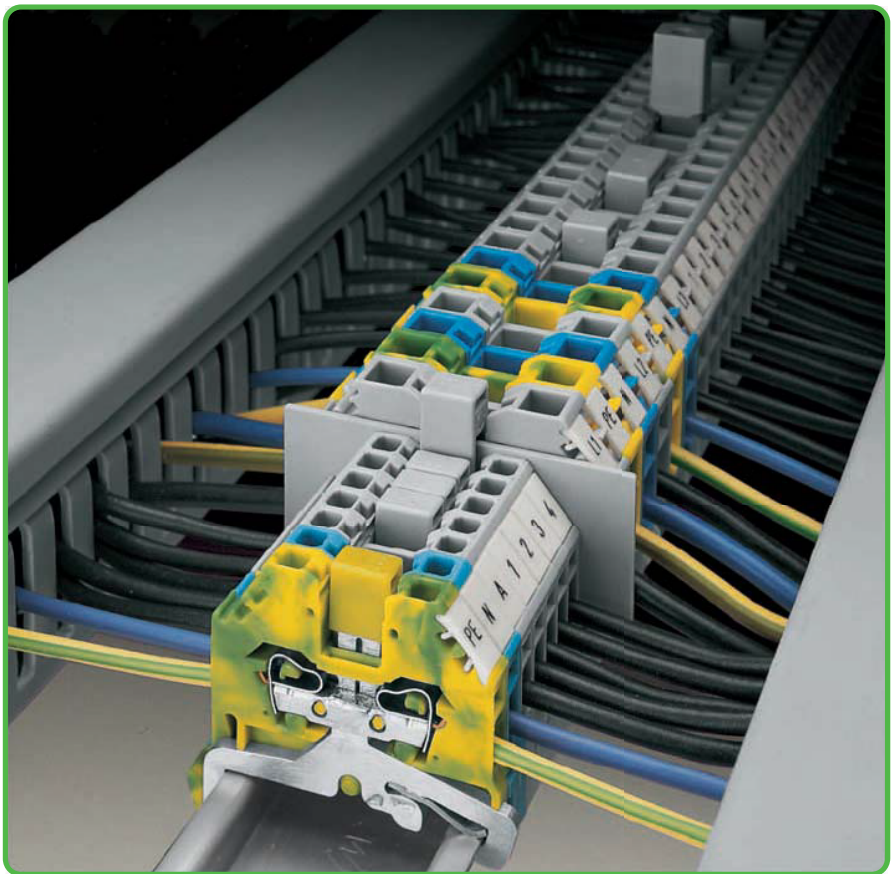


Conductor termination

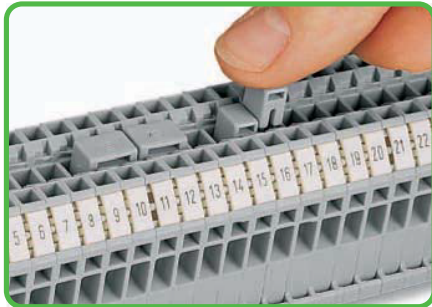
## Testing



Testing with test plug adapter.

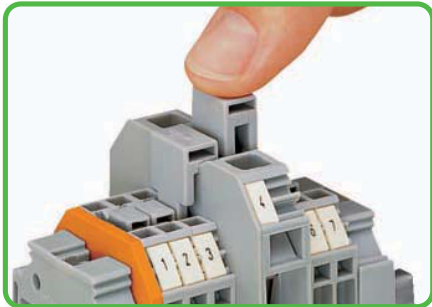


## Commoning

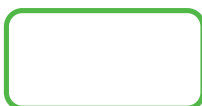


Commoning with adjacent jumpers.

## Commoning with step-down jumpers

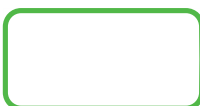


Commoning side-entry rail-mounted terminal blocks with step-down jumpers.

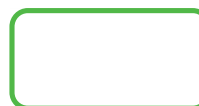


**CAGE CLAMP®**  
clamps the following  
copper conductors:\*

solid



stranded



fine-stranded,  
also with tinned  
single strands

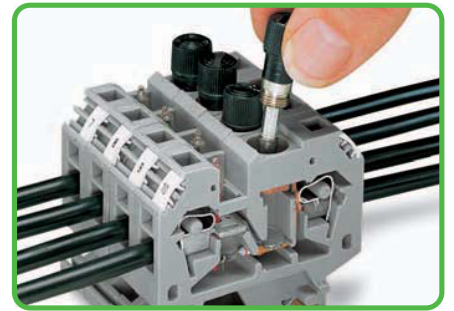
\* For aluminum conductors, see notes in Section 14.

- Description and Handling -



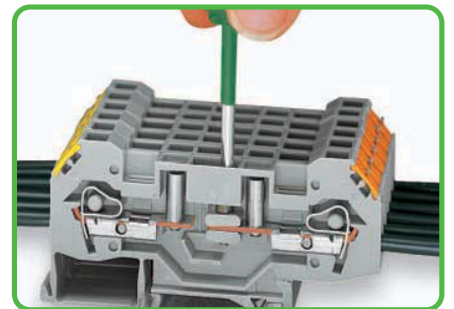
Suitable for all DIN 35 rails.

Fuse terminal blocks

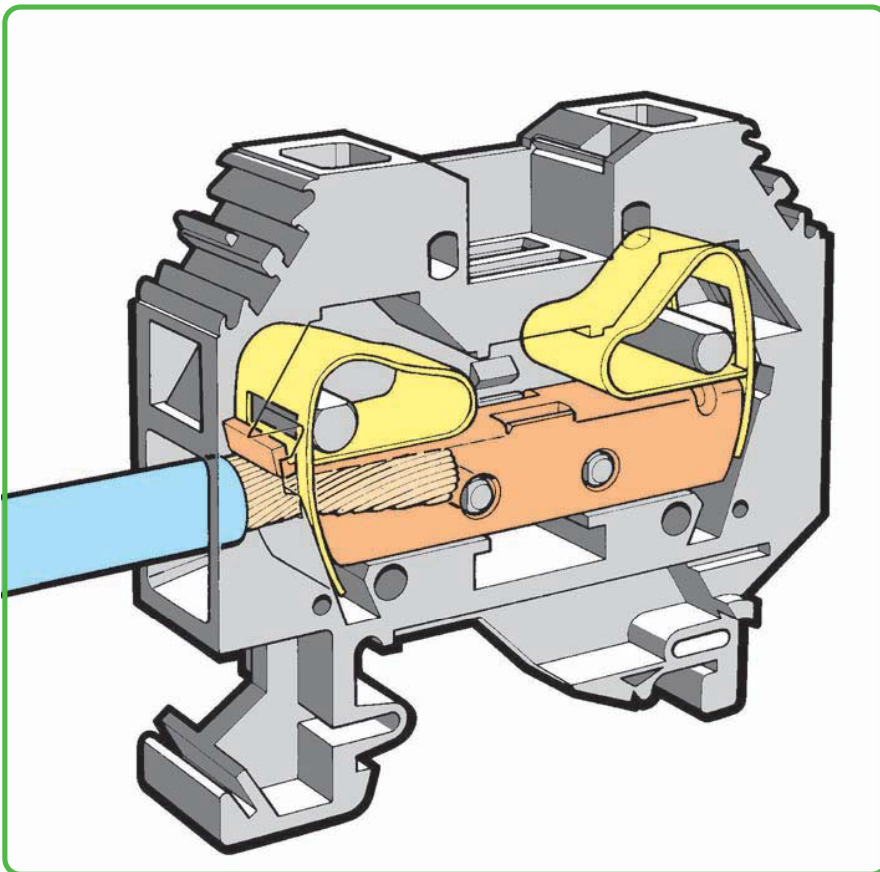


Replacing a fuse.

Disconnect terminal blocks for test and measurement



Shifting the disconnect slide link.



Marking



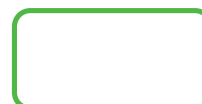
Marking with WMB Multi marking system.



fine-stranded, tip-bonded



fine-stranded, with ferrule ❶ (gaslight crimped)

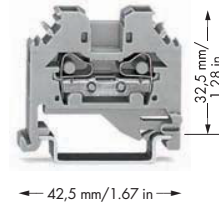
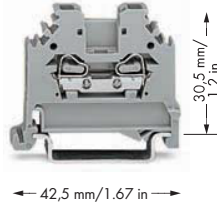
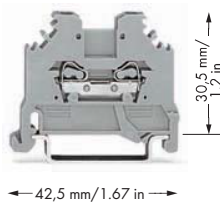


fine-stranded, with pin terminal (gaslight crimped)

❶ When using ferruled conductors, it is necessary to use a terminal block one size larger than the nominal cross section of the wire.

# Through and Ground Conductor Terminal Blocks 1.5 mm<sup>2</sup> to 6 mm<sup>2</sup> 279 to 282 Series

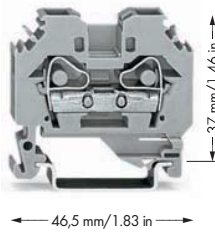
0.08 - 1.5 mm <sup>2</sup> 800 V/8 kV/3 ① I <sub>N</sub> 18 A Terminal block width 4 mm / 0.157 in 8 - 9 mm / 0.33 in ②	AWG 28 - 16 600 V, 10 A ③ 600 V, 15 A ④	0.08 - 2.5 mm <sup>2</sup> 800 V/8 kV/3 ① I <sub>N</sub> 24 A Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ②	AWG 28 - 12 * 600 V, 20 A ③ 600 V, 20 A ④	0.08 - 4 mm <sup>2</sup> 800 V/8 kV/3 ① I <sub>N</sub> 32 A Terminal block width 6 mm / 0.236 in 9 - 10 mm / 0.37 in ②	AWG 28 - 12 600 V, 20 A ③ 600 V, 25 A ④
---	---	---	---	--	---



Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
<b>2-conductor through terminal block</b>		<b>2-conductor through terminal block</b>		<b>2-conductor through terminal block</b>	
gray	279-101 100	gray	280-101 100	gray	281-101 100
blue	279-104 ③ 100	blue	280-104 ③ 100	blue	281-104 ③ 100
<b>2-conductor ground terminal block</b>		<b>2-conductor ground terminal block</b>		<b>2-conductor ground terminal block</b>	
		green-yellow	280-107 100	green-yellow	281-107 100
<b>Item-Specific Accessories</b>		<b>Item-Specific Accessories</b>		<b>Item-Specific Accessories</b>	
<b>End and intermediate plate, 2.5 mm thick</b>		<b>End and intermediate plate, 2.5 mm thick</b>		<b>End and intermediate plate, 3 mm thick</b>	
orange	280-302 100 (4x25)	orange	280-302 100 (4x25)	orange	281-302 100 (4x25)
gray	280-301 100 (4x25)	gray	280-301 100 (4x25)	gray	281-301 100 (4x25)
<b>Separator, oversized, 2 mm thick</b>		<b>Separator, oversized, 2 mm thick</b>		<b>Separator, oversized, 2 mm thick</b>	
orange	280-322 100 (4x25)	orange	280-322 100 (4x25)	orange	281-322 100 (4x25)
gray	280-332 100 (4x25)	gray	280-332 100 (4x25)	gray	281-332 100 (4x25)
<b>Adjacent jumper, insulated, I<sub>N</sub> 15 A</b>		<b>Adjacent jumper, insulated, I<sub>N</sub> = I<sub>N</sub> terminal block</b>		<b>Adjacent jumper, insulated, I<sub>N</sub> = I<sub>N</sub> terminal block</b>	
gray	279-402 200 (8x25)	gray	280-402 200 (8x25)	gray	281-402 200 (8x25)
yellow-green	279-422 200 (8x25)	yellow-green	280-422 200 (8x25)	yellow-green	281-422 200 (8x25)
<b>Alternate jumper, insulated, I<sub>N</sub> 15 A</b>		<b>Alternate jumper, insulated, I<sub>N</sub> = I<sub>N</sub> terminal block</b>		<b>Alternate jumper, insulated, I<sub>N</sub> = I<sub>N</sub> terminal block</b>	
gray	279-409 100 (4x25)	gray	280-409 100 (4x25)	gray	281-409 100 (4x25)
<b>Step-down jumper, insulated, I<sub>N</sub> 15 A</b>		<b>Step-down jumper, insulated, I<sub>N</sub> 15 A</b>		<b>Step-down jumper, insulated, I<sub>N</sub> 15 A</b>	
gray	284-414 50 (2x25)	gray	284-414 50 (2x25)	gray	284-414 50 (2x25)
<b>Intermediate plate, 1 mm thick</b>		<b>Intermediate plate, 1 mm thick</b>		<b>Intermediate plate, 1 mm thick</b>	
gray	281-333 100 (4x25)	gray	281-333 100 (4x25)	gray	281-333 100 (4x25)
orange	281-336 100 (4x25)	orange	281-336 100 (4x25)	orange	281-336 100 (4x25)
<b>Protective warning marker, with high-voltage symbol, black, for 5 terminal blocks</b>		<b>Protective warning marker, with high-voltage symbol, black, for 5 terminal blocks</b>		<b>Step-down jumper, insulated, I<sub>N</sub> 30 A</b>	
yellow	279-405 100 (4x25)	yellow	280-405 100 (4x25)	gray	284-413 50 (2x25)
<b>Test plug adapter, 8.3 mm wide, for terminal blocks 1.5 - 10 mm<sup>2</sup>, for test plug 4 mm Ø</b>		<b>Test plug adapter, 8.3 mm wide, for terminal blocks 1.5 - 10 mm<sup>2</sup>, for test plug 4 mm Ø</b>		<b>Step-down jumper, insulated, I<sub>N</sub> 32 A</b>	
gray	209-170 50 (2x25)	gray	209-170 50 (2x25)	gray	283-414 50 (2x25)
<b>Test plug adapter, 5 mm wide, for terminal blocks 1.5 - 4 mm<sup>2</sup>, for 210-137 test plug 2.3 mm Ø</b>		<b>Test plug adapter, 5 mm wide, for terminal blocks 1.5 - 4 mm<sup>2</sup>, for 210-137 test plug 2.3 mm Ø</b>		<b>Protective warning marker, with high-voltage symbol, black, for 5 terminal blocks</b>	
gray	280-404 100 (4x25)	gray	280-404 100 (4x25)	yellow	281-405 100 (4x25)
				<b>Test plug adapter, 8.3 mm wide, for terminal blocks 1.5 - 10 mm<sup>2</sup>, for test plug 4 mm Ø</b>	
				gray 209-170 50 (2x25)	



0.2 - 6 mm <sup>2</sup>	AWG 24 - 10
800 V/8 kV/3 ①	600 V, 30 A <sup>TH</sup>
I <sub>N</sub> 41 A	600 V, 10 A <sup>@</sup>
Terminal block width 8 mm / 0.315 in	
12 - 13 mm / 0.49 in ②	



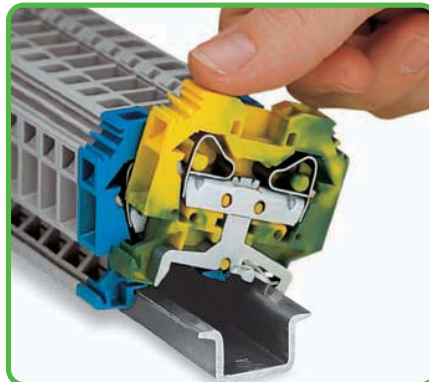
Carrier rail	Item No.	Curre [A]	Acc. to mm <sup>2</sup> /AWG Cu
DIN 35 x 7.5 (steel)			
slotted	210-112	76	16/6
unslotted	210-113	76	16/6
DIN 35 x 15 (steel)			
1.5 mm thick	210-114	125	35/2
2.3 mm thick	210-118	125	35/2
DIN 35 x 7.5 (Al)			
unslotted	210-196	76	16/6
DIN 35 x 15 (Cu)			
2.3 mm thick	210-198	309	150/6/0

Current applies to rails of 1 m/3'3" length

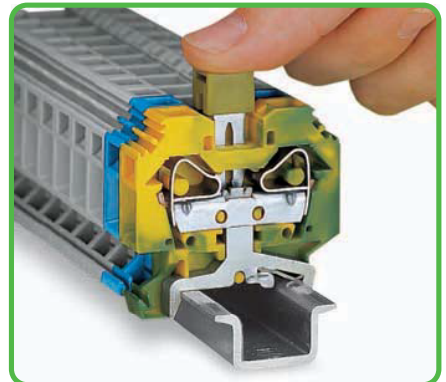
If required to use standard carrier rails as ground conductor busbars, please refer to insert space between the **maximum current capacities** listed above. According to EN 60947-7-2 (VDE 0611, part 3), steel carrier rails shall not be used for PEN applications.

- \* AWG 12: THHN, THWN
- ① 800 V = rated voltage  
8 kV = rated surge voltage  
3 = pollution degree  
(also see Section 1.4)
- ② Strip length, see packaging or instructions.
- ③ Suitable for Ex i applications
- ④ See application notes for:  
Step-down jumper, page 309  
Test plug module, page 197

	Item No.	Pack. Unit
<b>2-conductor through terminal block</b>		
○ gray	282-101	50
● blue	282-104 ③	50
<b>2-conductor ground terminal block</b>		
● green-yellow	282-107	50
<b>Item-Specific Accessories</b>		
<b>End and intermediate plate, 4 mm thick</b>		
	orange 282-302	100 (4x25)
	gray 282-301	100 (4x25)
<b>Separator, oversized, 2 mm thick</b>		
	orange 282-322	100 (4x25)
	gray 282-332	100 (4x25)
<b>Adjacent jumper, insulated,</b>		
	I <sub>N</sub> 41 A	
	gray 282-402	100 (4x25)
	yellow-green 282-422	100 (4x25)
<b>Alternate jumper, insulated,</b>		
	I <sub>N</sub> 41 A	
	gray 282-409	100 (4x25)
<b>Step-down jumper, insulated,</b>		
④	I <sub>N</sub> 30 A	
	gray 284-413	50 (2x25)
<b>Cover plate,</b>		
	1 mm thick	
	gray 284-333	100 (4x25)
	orange 284-343	100 (4x25)
<b>Protective warning marker,</b>		
	with high-voltage symbol, black, for 5 terminal blocks	
	yellow 282-405	100 (4x25)
<b>Test plug adapter, 8.3 mm wide,</b>		
	for terminal blocks 1.5 - 10 mm <sup>2</sup> , for test plug 4 mm Ø	
	gray 209-170	50 (2x25)
<b>B-type test plug module,</b>		
④	can be snapped together, 8 mm wide	
	gray 709-310	100 (4x25)
<b>B-type spacer module,</b>		
	can be snapped together, 8 mm wide	
	gray 709-311	100 (4x25)



**Snapping a terminal block onto the carrier rail.**  
Ground conductor terminal blocks snap onto the rail in the same way as through terminal blocks, but automatically make a direct electrical connection to the rail. Sliding on the rail is not then possible.



**Push jumper down firmly until fully inserted.**  
Commoning ground conductor terminal blocks with through terminal blocks is possible in one direction only (via rear side of terminal block) using adjacent jumpers. In addition to the required marking of these blocks, use yellow-green adjacent jumpers.



**Removal from the carrier rail.**  
When mounting on the rail, ensure that open sides of terminal blocks face in the same direction. Both mounting feet and removal slots are on the same side for all terminal blocks, making it possible to visually ensure blocks are facing in same direction.