


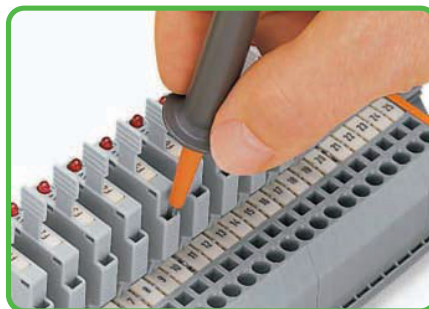


Accessories			
<b>WSB Quick marking system,</b>			
	for fuse plug 281-5.,		
	WSB Markers 4 mm wide		
	F1, ..., F10 (10x)	<b>209-787</b>	5
	F11, ..., F20 (10x)	<b>209-700/209-124</b>	
	F21, ..., F30 (10x)	<b>209-700/209-125</b>	
	F31, ..., F40 (10x)	<b>209-700/209-126</b>	
	F41, ..., F50 (10x)	<b>209-700/209-127</b>	
			5
<b>WMB Multi marking system,</b>			
	10 strips with 10 markers per card,		
	stretchable 5 - 5.2 mm		
	plain	<b>793-5501</b>	5
<b>WMB Multi marking system, plain,</b>			
	10 strips with 10 markers per card,		
	stretchable 5 - 5.2 mm		
	yellow	<b>793-5501/000-002</b>	
	red	<b>793-5501/000-005</b>	
	blue	<b>793-5501/000-006</b>	
	gray	<b>793-5501/000-007</b>	
	orange	<b>793-5501/000-012</b>	
	light green	<b>793-5501/000-017</b>	
	green	<b>793-5501/000-023</b>	
	violet	<b>793-5501/000-024</b>	
			5



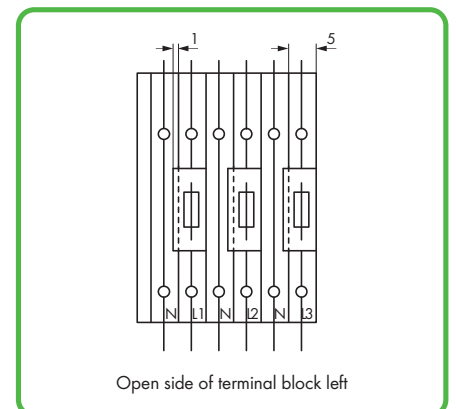
Using pluggable fuse holders with rail-mount terminal blocks for control circuit protection is highly advantageous for the user, as the function and the wiring are accomplished by two separate parts:

- No additional cost for assembly and wiring
- No risk of accidental contact with live parts during disconnection of fuse plug
- If exchanging a defective fuse, the fuse plug is completely separated from the carrier terminal block. This provides changeout away from current carrying parts.
- The fuse plug can be removed by service personnel, avoiding unintentional reclosing of the circuit by another person.
- Quickly exchange a fuse by using a prepared "stand-by plug."

The following fuse plug features provide quick and safe handling:

- Optional LED indicates blown fuse
- Markable fuse plug for clear coordination to the correct carrier terminal block
- Two touch-proof test slots
- High density with only 6 mm/0.236 in width of terminal block/fuse plug
- Instead of a fuse, a shorting link may be used as a disconnect plug.

4 Electrical ratings are given by the fuse or LED nominal voltage (also see pages 234 - 235).



When corresponding Neutral-circuit is adjacent to a fuse plug, a 5 mm/0.197 in wide space saving terminal block may be used, as a 6 mm/0.236 in fuse plug may overlap the terminal block (see diagram below). For 5 mm/0.197 in wide carrier terminal blocks, see page 232 (can be used with end plate, for example).

# Fuse Disconnect Terminal Blocks with Pivoting Fuse Holder, for Miniature Metric Fuses, 281 Series

## Blown fuse indication



Blown fuse indication by LED or neon lamp.

## Fuse replacement

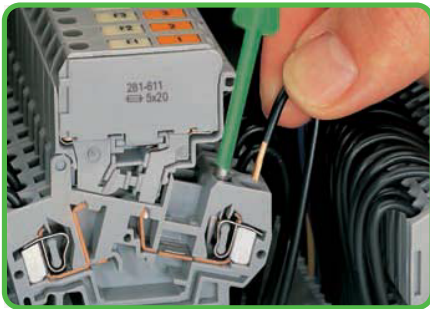


Before replacing the fuse, pivot the fuse holder in the locked open position.



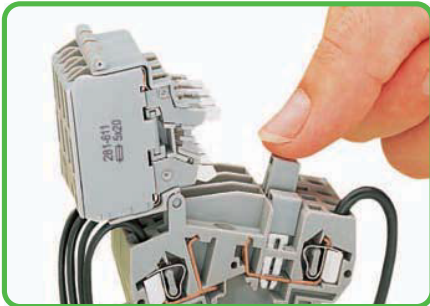
One end of the fuse is automatically ejected from the holder when opening the cover.

## CAGE CLAMP® connection

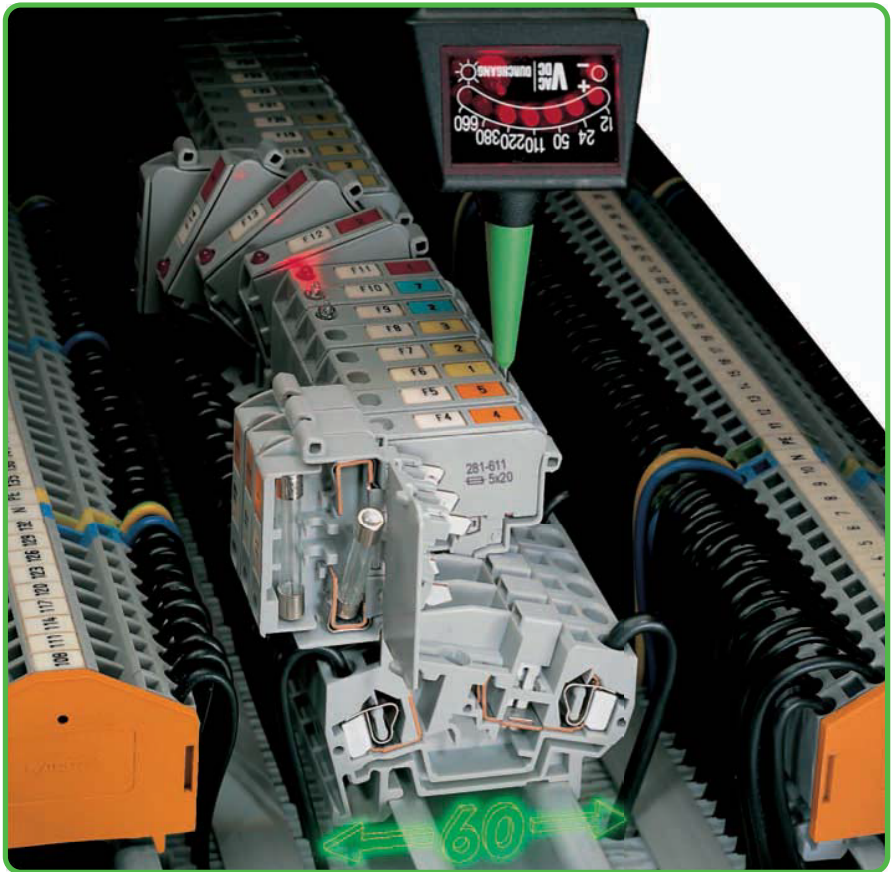


Conductor termination

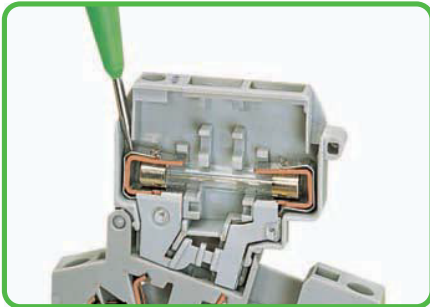
## Commoning



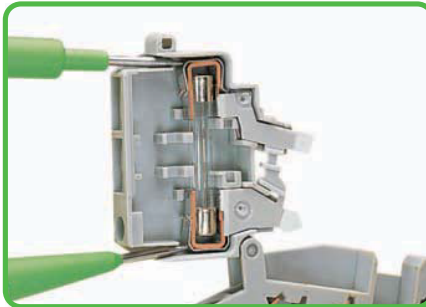
Distribution of current to several fuse-protected circuits via insulated touchproof jumpers.



## Testing



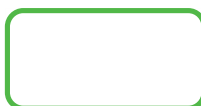
Voltage test, either at input or output with fuse holder in closed position (live).



Through test with fuse holder in open position (no voltage).

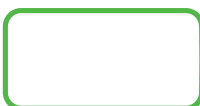


Voltage test at input in the test slot of the current bar.

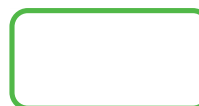


**CAGE CLAMP®** clamps the following copper conductors:\*

solid



stranded



fine-stranded, also with tinned single strands

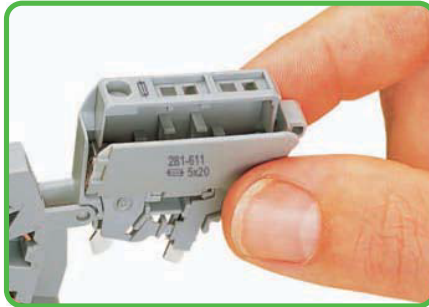
\* For aluminum conductors, see notes in Section 14.

## - Description and Handling -

### Fuse replacement (continued)

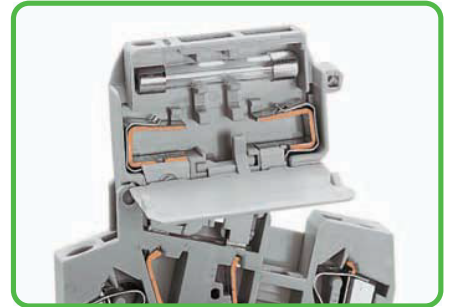


The fuse can be easily removed by hand.

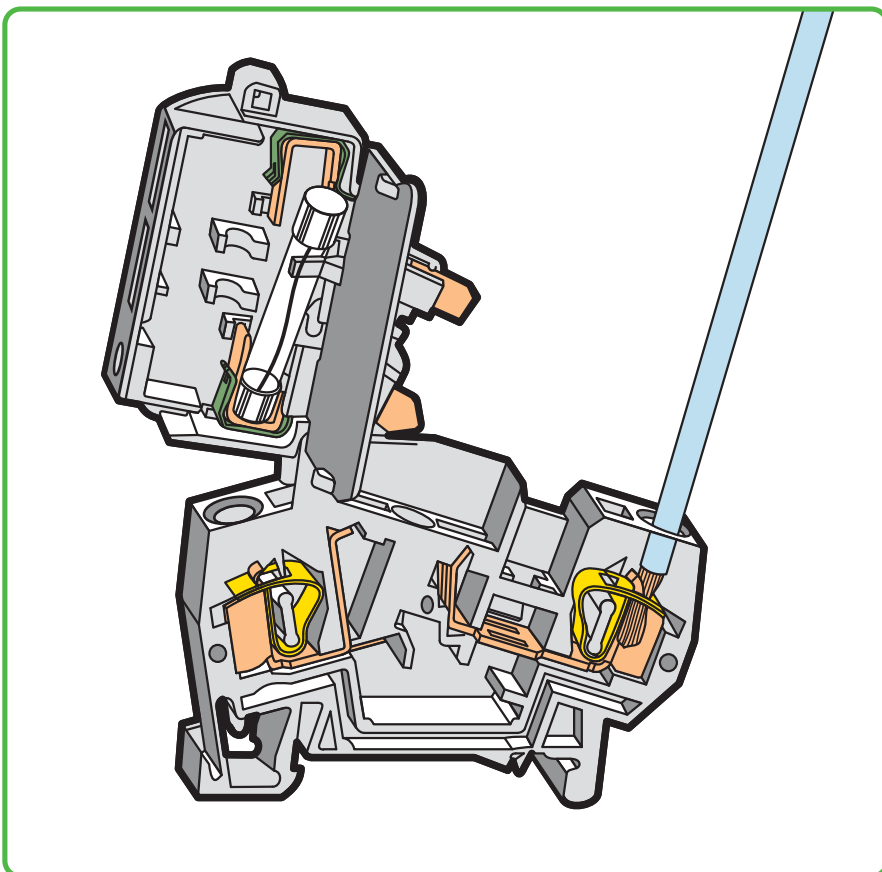


Insert new fuse snap the cover closed.

### Spare fuse



Storage of spare fuse (fuse holder without blown fuse indication).



### Touchproof protection



"Touchproof" protection in all positions of the fuse holder.

### Locked position

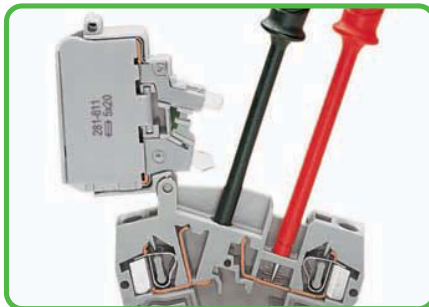


Fuse holder will remain safely locked open in vertical assemblies.

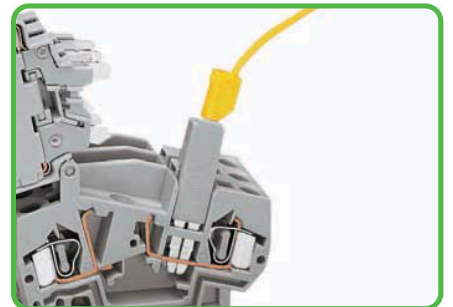
### Testing (continued)



Testing voltage at the output via separate test slot.



Current measuring between jumper slot and separate test slot.



Voltage testing at input via 280-404 test plug adapter (shown) or 281-407 test plug.



fine-stranded,  
tip-bonded



fine-stranded,  
with ferrule ①  
(gastight crimped)

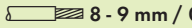


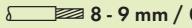


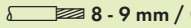




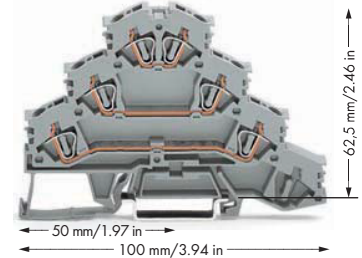
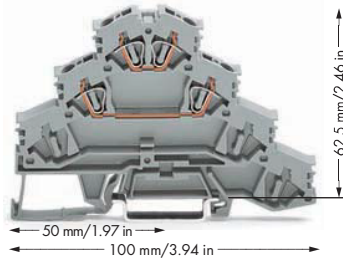
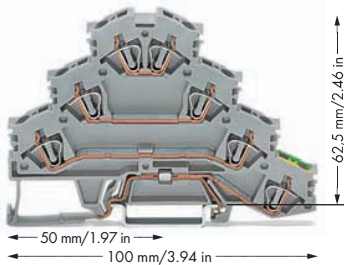
fine-stranded,  
with pin terminal  
(gastight crimped)

① When using ferrules, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.



# Quadruple-Deck, Rail-Mounted Terminal Blocks or Rail-Mounted Terminal Blocks for Wiring of Electric Motors 4 mm<sup>2</sup> 281 Series


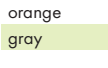








<p>0.08 - 4 mm<sup>2</sup>                  400 V/6 kV/3 ①                  I<sub>N</sub> 20 A (2.5 mm<sup>2</sup>)                  I<sub>N</sub> 25 A (4 mm<sup>2</sup>)                  Terminal block width 6 mm / 0.236 in   8 - 9 mm / 0.33 in ②</p>	<p>AWG 28 - 12                  600 V, 20 A                   300 V, 25 A </p>	<p>0.08 - 4 mm<sup>2</sup>                  400 V/6 kV/3 ①                  I<sub>N</sub> 20 A (2.5 mm<sup>2</sup>)                  I<sub>N</sub> 25 A (4 mm<sup>2</sup>)                  Terminal block width 6 mm / 0.236 in   8 - 9 mm / 0.33 in ②</p>	<p>AWG 28 - 12                  600 V, 20 A                   300 V, 25 A </p>	<p>0.08 - 4 mm<sup>2</sup>                  400 V/6 kV/3 ①                  I<sub>N</sub> 20 A (2.5 mm<sup>2</sup>)                  I<sub>N</sub> 25 A (4 mm<sup>2</sup>)                  Terminal block width 6 mm / 0.236 in   8 - 9 mm / 0.33 in ②</p>	<p>AWG 28 - 12                  600 V, 20 A                   300 V, 25 A </p>
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Quadruple-deck, rail-mounted terminal block or Rail-mounted terminal block for wiring of electric motors, gray		Quadruple-deck, rail-mounted terminal block or Rail-mounted terminal block for wiring of electric motors, gray		Quadruple-deck, rail-mounted terminal block or Rail-mounted terminal block for wiring of electric motors, gray	
① L1 - L2 - L3 - PE	281-530 50	① L1 - L2	281-531 50	① L1 - L2 - L3	281-532 50

## 281 Series Accessories

Appropriate marking systems: WMB/Marking strips (see Section 13)

<p><b>End and intermediate plate, 1 mm thick</b></p> <p> orange <b>281-366</b> 100 (4x25)</p> <p> gray <b>281-365</b> 100 (4x25)</p>	<p><b>WMB Multi marking system,</b></p> <p> 10 strips with 10 markers per card, stretchable 5 - 5.2 mm plain <b>793-5501</b> 5</p>
<p><b>Insulation stop,</b></p> <p>③ 5 pcs/strip, 0.08 - 0.2 mm<sup>2</sup> "s" (0.14 mm<sup>2</sup> "fst") white <b>281-470</b> 200 (8x25)</p>	<p><b>WMB Multi marking system, plain,</b></p> <p> 10 strips with 10 markers per card, stretchable 5 - 5.2 mm</p>
<p><b>Insulation stop,</b></p> <p>③ 5 pcs/strip, 0.25 - 0.5 mm<sup>2</sup> light gray <b>281-471</b> 200 (8x25)</p>	<p>yellow <b>793-5501/000-002</b></p> <p>red <b>793-5501/000-005</b></p> <p>blue <b>793-5501/000-006</b></p> <p>gray <b>793-5501/000-007</b></p> <p>orange <b>793-5501/000-012</b></p> <p>light green <b>793-5501/000-017</b></p> <p>green <b>793-5501/000-023</b></p> <p>violet <b>793-5501/000-024</b> 5</p>
<p><b>Insulation stop,</b></p> <p>③ 5 pcs/strip, 0.25 - 1.5 mm<sup>2</sup> dark gray <b>281-472</b> 200 (8x25)</p>	<p><b>Marking strip, plain,</b></p> <p> 7.5 mm wide, 50 m roll translucent <b>709-177</b> 1</p>
<p><b>Comb-style jumper bar, insulated,</b></p> <p>③ I<sub>N</sub> = I<sub>N</sub> terminal block</p> <p>2-way <b>281-482</b> 100 (4x25)</p> <p>3-way <b>281-483</b> 100 (4x25)</p> <p>5-way <b>281-485</b> 100 (4x25)</p> <p>10-way <b>281-490</b> 50 (2x25)</p>	<p><b>Screwless end stop,</b></p> <p> for DIN 35 rail, 6 mm wide gray <b>249-116</b> 100 (4x25)</p>
<p><b>Alternate comb-style jumper bar,</b></p> <p>insulated, I<sub>N</sub> = I<sub>N</sub> terminal block</p> <p>2-way <b>281-492</b> 100 (4x25)</p>	<p><b>Screwless end stop,</b></p> <p> for DIN 35 rail, 10 mm wide gray <b>249-117</b> 50 (2x25)</p>
<p><b>Operating tool, of insulating material</b></p> <p> 2-way <b>280-432</b> 1</p> <p>3-way <b>280-433</b> 1</p> <p>5-way <b>281-440</b> 1</p>	
<p><b>Test plug,</b></p> <p> with 500 mm cable, 2 mm Ø red <b>210-136</b> 50</p>	
<p><b>Test plug,</b></p> <p> with 500 mm cable, 2.3 mm Ø yellow <b>210-137</b> 50</p>	