

# Rail-Mounted Terminal Blocks Series 279 to 285

## Conductor termination/removal

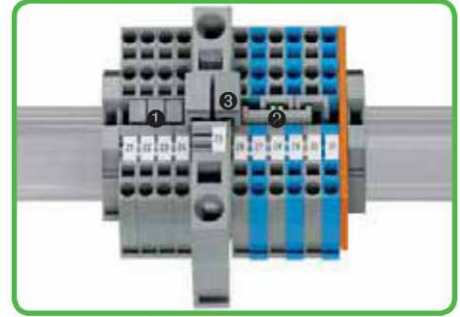


Conductor termination with screwdriver.



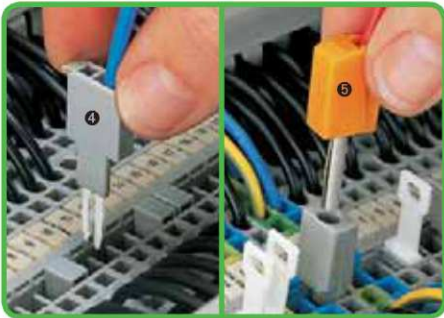
Conductor removal with screwdriver.

## Commoning/Step-down jumper



Commoning with adjacent jumpers ① or staggered jumpers ②.  
Commoning of terminal blocks of different sizes - with step down jumpers ③.

## Testing

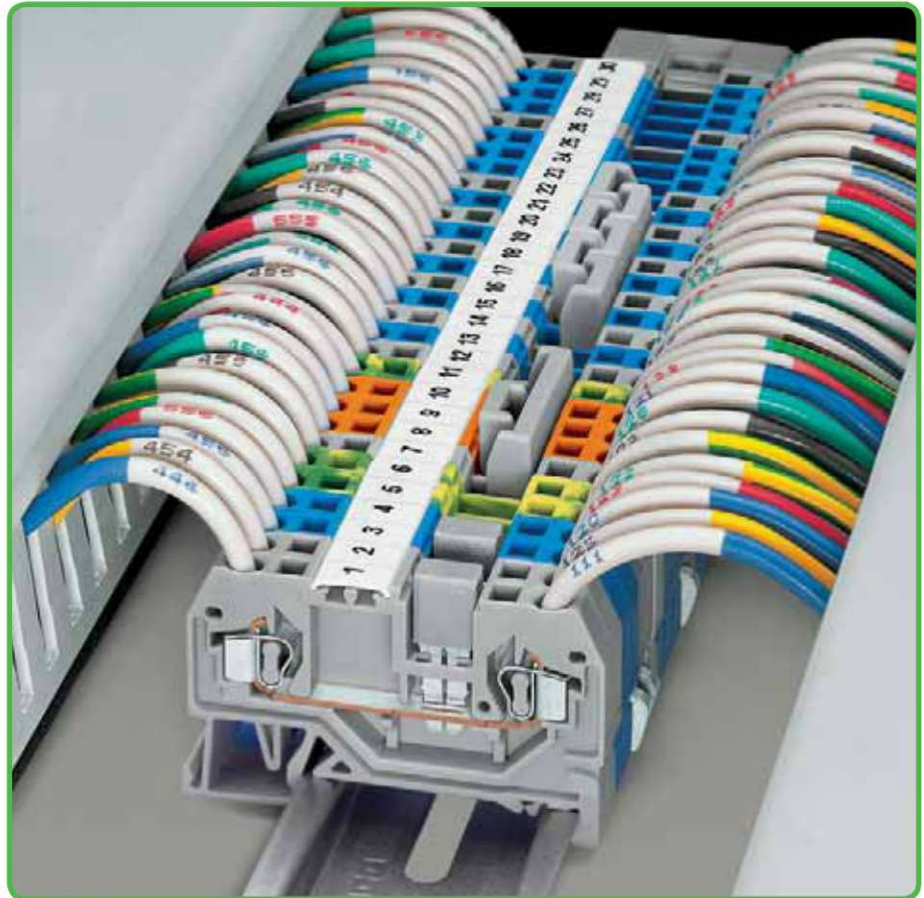


④ Test plug with CAGE CLAMP®.  
⑤ Banana plug (Ø 4 mm/0.157 in) using test plug adapter (209-170).

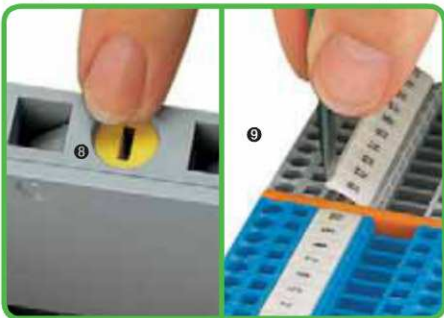
## Protective warning marker Insulation stop



⑥ Protective warning markers inserted into the operating slots.  
⑦ Insertion of insulation stop.



## Finger guard cover Marking

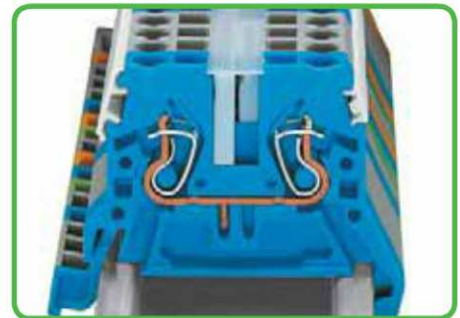


⑧ Touch protection for unused clamping units.  
⑨ Marking with WMB Multi marking system or WSB Quick marking system.



Marking via IP 350 Plotter.

## Series 870 (see Full Line Catalog, Volume 1)



Rail-mounted terminal blocks with CAGE CLAMP®.

CAGE CLAMP®S clamps the following copper conductors:



solid



stranded



fine-stranded



tip bonded



with crimped ferrule




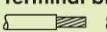


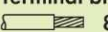




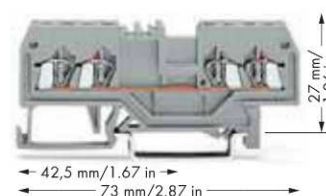
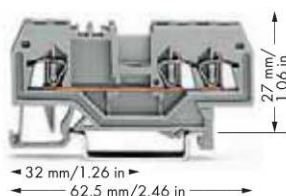
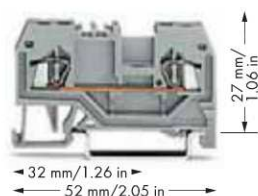
with crimped pin terminal



























Strip length, see packaging or instructions.

# Through/Ground (Earth) Conductor /Shield (Screen) and Terminal Blocks 1.5 mm<sup>2</sup>/AWG 16 Series 279

CAGE CLAMP®

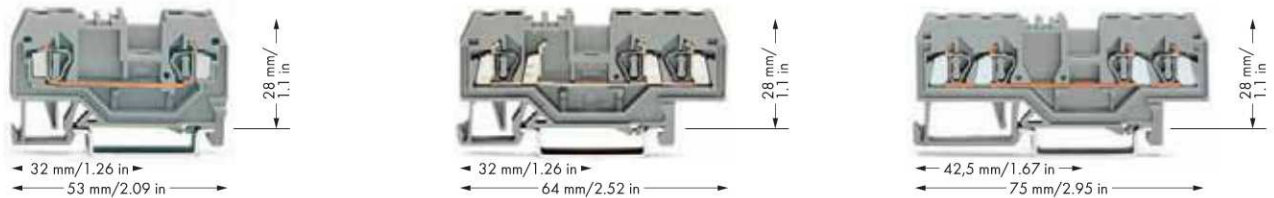
0.08 – 1.5 mm <sup>2</sup> 800 V/8 kV/3 I <sub>N</sub> 18 A Terminal block width 4 mm / 0.157 in  8 – 9 mm / 0.33 in Approvals	AWG 28 – 16 600 V, 10 A  600 V, 10 A 	0.08 – 1.5 mm <sup>2</sup> 800 V/8 kV/3 I <sub>N</sub> 18 A Terminal block width 4 mm / 0.157 in  8 – 9 mm / 0.33 in Approvals	AWG 28 – 16 600 V, 10 A  600 V, 10 A 	0.08 – 1.5 mm <sup>2</sup> 800 V/8 kV/3 I <sub>N</sub> 18 A Terminal block width 4 mm / 0.157 in  8 – 9 mm / 0.33 in Approvals	AWG 28 – 16 600 V, 10 A  600 V, 10 A 
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Color	Item No.	PU	Color	Item No.	PU	Color	Item No.	PU
<b>2-conductor through terminal block</b>			<b>3-conductor through terminal block</b>			<b>4-conductor through terminal block</b>		
gray	279-901	100	gray	279-681	100	gray	279-831	100
blue	279-904	100	blue	279-684	100	blue	279-834	100
orange	279-902	100	orange	279-682	100	orange	279-832	100
red	279-903	100	red	279-683	100	red	279-833	100
black	279-905	100	black	279-685	100	black	279-835	100
yellow	279-906	100	yellow	279-686	100	yellow	279-836	100
light gray 	279-992	100	light gray 	279-993	100	light gray 	279-994	100
<b>2-conductor (ground) earth terminal block</b>			<b>3-conductor (ground) earth terminal block</b>			<b>4-conductor ground (earth) terminal block</b>		
green-yellow	279-907	100	green-yellow	279-687	100	green-yellow	279-837	100
green-yellow 	279-907/999-950	100	green-yellow 	279-687/999-950	100	green-yellow 	279-837/999-950	100
<b>Other terminal blocks with the same profile:</b> Diode term. blocks 279-915/... ..			<b>Other terminal blocks with the same profile:</b> Diode term. blocks 279-673/... .. LED term. blocks 279-674/... ..			<b>Other terminal blocks with the same profile:</b> Double potential term. blocks 279-826 Diode term. blocks 279-815/... .. LED term. blocks 279-809/... ..		
<b>End and intermediate plate, 2 mm/0.079 in thick</b>			<b>End and intermediate plate, 2 mm/0.079 in thick</b>			<b>End and intermediate plate, 2 mm/0.079 in thick</b>		
	orange 279-328 100 (4 x 25)			orange 279-339 100 (4 x 25)			orange 279-346 100 (4 x 25)	
	gray 279-325 100 (4 x 25)			gray 279-308 100 (4 x 25)			gray 279-344 100 (4 x 25)	
	light gray 279-330 100 (4 x 25)			light gray 279-341 100 (4 x 25)			light gray 279-348 100 (4 x 25)	
<b>Separator plate, oversized, 2 mm/0.079 in thick</b>			<b>Separator plate, oversized, 2 mm/0.079 in thick</b>			<b>Separator plate, oversized, 2 mm/0.079 in thick</b>		
	orange 279-329 100 (4 x 25)			orange 279-340 100 (4 x 25)			orange 279-347 100 (4 x 25)	
	gray 279-326 100 (4 x 25)			gray 279-309 100 (4 x 25)			gray 279-345 100 (4 x 25)	
	light gray 279-331 100 (4 x 25)			light gray 279-342 100 (4 x 25)			light gray 279-349 100 (4 x 25)	
<b>Separator for Ex e/Ex i applications see page 30</b>			<b>Separator for Ex e/Ex i applications see page 30</b>			<b>Separator for Ex e/Ex i applications see page 30</b>		
<b>Accessories, Series 279</b>			Appropriate marking systems: <b>WMB/WSB/WFB</b>					
<b>Adjacent jumper, insulated, I<sub>N</sub> 15 A</b>			<b>Alternate comb-style jumper bar, insulated,</b>			<b>Protective warning marker, with high-voltage symbol,</b>		
	gray 279-402 200 (8 x 25) yellow-green 279-422 200 (8 x 25)			I <sub>N</sub> = I <sub>N</sub> of terminal block 2-way 279-492 200 (8 x 25)			for 5 terminal blocks yellow 279-415 100 (4 x 25)	
<b>Alternate jumper, insulated, I<sub>N</sub> 15 A</b>			<b>Operating tool, insulated</b>			<b>Screwless end stop, 6 mm/0.236 in wide</b>		
	gray 279-409 100 (4 x 25)			2-way 279-432 1 3-way 279-433 1 10-way 279-440 1			249-116 100 (4 x 25) 10 mm/0.394 in wide 249-117 50 (2 x 25)	
<b>Push-in type wire jumper, insulated, I<sub>N</sub> 9 A</b>			<b>Insulation stop,</b>			<b>Test plug adapter, suitable for terminal blocks 1.5 - 4 mm<sup>2</sup>/</b>		
	L = 60 mm/2.362 in 249-125 10 L = 110 mm/4.331 in 249-126 10 L = 250 mm/9.843 in 249-127 10			5 pieces/strip 200 strips			AWG 16 - 12, 5 mm/0.197 in wide 280-404 100 (4 x 25) for 210-137 test plug	
<b>Comb-style jumper bar, insulated, I<sub>N</sub> = I<sub>N</sub> of term. block</b>			<b>Test plug adapter, suitable for terminal blocks 1.5 - 10 mm<sup>2</sup>/</b>			<b>Test plug adapter, suitable for terminal blocks 1.5 - 10 mm<sup>2</sup>/</b>		
	2-way 279-482 200 (8 x 25) 3-way 279-483 200 (8 x 25) 10-way 279-490 50 (2 x 25)		white 279-470 0.08 mm <sup>2</sup> - 0.2 mm <sup>2</sup> / AWG 28 - 24				AWG 16 - 8, 8 mm/0.315 in wide 209-170 50 (2 x 25) for test plug Ø 4 mm/0.157 in	
<b>Operating tool, with partially insulated shaft,</b>			<b>Banana plugs, only for protective extra-low voltage (42V)</b>			<b>Banana plugs, only for protective extra-low voltage (42V)</b>		
	(2.5 x 0.4) mm/(0.098 x 0.016) in 210-719 1		dark gray 279-471 0.25 mm <sup>2</sup> /AWG 22				black 215-311 50 red 215-212 50 blue 215-711 50	
			Suitable for Ex i applications  Suitable for Ex e II applications 0.2 - 1.5 mm <sup>2</sup> AWG 24 - 16 550 V~, 15 A			Other colors and technical data, see page 181		

# Through/Ground (Earth) Conductor /Shield (Screen) and Terminal Blocks 2.5 mm<sup>2</sup>/AWG 12 Series 280

<p>0.08 – 2.5 mm<sup>2</sup> 800 V/8 kV/3 I<sub>N</sub> 24 A</p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>AWG 28 – 12* 600 V, 20 A  600 V, 25 A </p> <p>① Approvals</p>	<p>0.08 – 2.5 mm<sup>2</sup> 800 V/8 kV/3 I<sub>N</sub> 24 A</p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>AWG 28 – 12* 600 V, 20 A  600 V, 25 A </p> <p>① Approvals</p>	<p>0.08 – 2.5 mm<sup>2</sup> 800 V/8 kV/3 I<sub>N</sub> 20 A</p> <p>Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in</p> <p>AWG 28 – 12* 600 V, 20 A  600 V, 15 A </p> <p>① Approvals</p>
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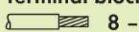


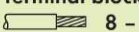


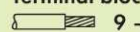


Color	Item No.	PU	Color	Item No.	PU	Color	Item No.	PU
<b>2-conductor through terminal block</b>			<b>3-conductor through terminal block</b>			<b>4-conductor through terminal block</b>		
gray	280-901	100	gray	280-681	100	gray	280-833	100
blue	280-904	100	blue	280-684	100	blue	280-834	100
orange	280-902	100	orange	280-650	100	orange	280-835	100
red	280-903	100	red	280-653	100	red	280-830	100
black	280-905	100	black	280-671	100	black	280-831	100
yellow	280-906	100	yellow	280-672	100	yellow	280-832	100
light gray	280-992	100	light gray	280-993	100	light gray	280-994	100
<b>2-conductor (ground) earth terminal block</b>			<b>3-conductor (ground) earth terminal block</b>			<b>4-conductor ground (earth) terminal block</b>		
green-yellow	280-907	100	green-yellow	280-687	100	green-yellow	280-837	100
green-yellow	280-907/999-950	100	green-yellow	280-687/999-950	100	green-yellow	280-837/999-950	100
						<b>4-conductor screen terminal block</b>		
						white 280-838 100		
<b>Other terminal blocks with the same profile:</b>			<b>Other terminal blocks with the same profile:</b>			<b>Other terminal blocks with the same profile:</b>		
Diode term. blocks 280-915/... Page 69			Diode term. blocks 280-673/... Page 69			Double potential term. blocks 280-826		
Disconnect term. blocks 280-912 Page 69			Disconnect term. blocks 280-683 Page 69			LED term. blocks 280-809/... Page 69		
Carrier term. blocks 280-916			Carrier term. blocks 280-610			Carrier term. blocks 280-816		
<b>End and intermediate plate, 2.5 mm/0.098 in thick</b>			<b>End and intermediate plate, 2.5 mm/0.098 in thick</b>			<b>End and intermediate plate, 2.5 mm/0.098 in thick</b>		
orange 280-309 100 (4 x 25)			orange 280-326 100 (4 x 25)			orange 280-315 100 (4 x 25)		
gray 280-308 100 (4 x 25)			gray 280-324 100 (4 x 25)			gray 280-314 100 (4 x 25)		
light gray 280-356 100 (4 x 25)			light gray 280-358 100 (4 x 25)			light gray 280-352 100 (4 x 25)		
<b>Separator plate, oversized, 2 mm/0.079 in thick</b>			<b>Separator plate, oversized, 2 mm/0.079 in thick</b>			<b>Separator plate, oversized, 2 mm/0.079 in thick</b>		
orange 280-311 100 (4 x 25)			orange 280-346 100 (4 x 25)			orange 280-335 100 (4 x 25)		
gray 280-310 100 (4 x 25)			gray 280-344 100 (4 x 25)			gray 280-334 100 (4 x 25)		
light gray 280-357 100 (4 x 25)			light gray 280-359 100 (4 x 25)			light gray 280-353 100 (4 x 25)		
Separator for Ex e/Ex i applications see page 30			Separator for Ex e/Ex i applications see page 30			Separator for Ex e/Ex i applications see page 30		
<b>Accessories, Series 280</b>			Appropriate marking systems: <b>WMB/WSB/WFB</b>					
<b>Adjacent jumper, insulated, I<sub>N</sub> 24 A</b>			<b>Comb-style jumper bar, insulated, I<sub>N</sub> = I<sub>N</sub> of term. block</b>			<b>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</b>		
gray 280-402 200 (8 x 25)			2-way 280-482 200 (8 x 25)			yellow 280-415 100 (4 x 25)		
yellow-green 280-422 200 (8 x 25)			3-way 280-483 200 (8 x 25)					
			10-way 280-490 50 (2 x 25)					
<b>Alternate jumper, insulated, I<sub>N</sub> 24 A</b>			<b>Operating tool, insulated</b>			<b>Screwless end stop, 6 mm/0.236 in wide</b>		
gray 280-409 100 (4 x 25)			2-way 280-432 1			249-116 100 (4 x 25)		
			3-way 280-433 1			10 mm/0.394 in wide		
			10-way 280-440 1			249-117 50 (2 x 25)		
<b>Staggered jumper, insulated, I<sub>N</sub> 24 A, width 5 mm/0.197 in</b>			<b>Insulation stop,</b>			<b>Test plug adapter, for terminal blocks 1.5 - 4 mm<sup>2</sup>/</b>		
from 1 to 2 780-452 100 (4 x 25)			5 pieces/strip			AWG 16 - 12, 5 mm/0.197 in wide		
from 1 to 3 780-453 100 (4 x 25)			200 strips			280-404 100 (4 x 25)		
from 1 to 4 780-454 100 (4 x 25)			white 280-470 0.08 mm <sup>2</sup> - 0.2 mm <sup>2</sup> /AWG 28 - 24			for 210-137 Test Plug		
from 1 to 5 780-455 50 (2 x 25)			light gray 280-471 0.25 mm <sup>2</sup> - 0.5 mm <sup>2</sup> /AWG 12 - 20			<b>Test plug adapter, for terminal blocks 1.5 - 10 mm<sup>2</sup>/</b>		
from 1 to 8 780-458 50 (2 x 25)			dark gray 280-472 0.75 mm <sup>2</sup> - 1 mm <sup>2</sup>			AWG 16 - 12, 8 mm/0.315 in wide		
						209-170 50 (2 x 25)		
						for test plug Ø 4 mm/0.157 in		
<b>Push-in type wire jumper, insulated, I<sub>N</sub> 9 A</b>			<p> Suitable for Ex i applications</p> <p> Suitable for Ex e II applications</p> <p>0.2 - 2.5 mm<sup>2</sup> AWG 24 - 12</p> <p>550 V~, 20 A</p>			<b>Test plug, 6 mm/0.236 in wide, with CAGE CLAMP®</b>		
L = 60 mm/2.362 in 249-125 10						for 0.08 - 2.5 mm <sup>2</sup> /AWG 28-14		
L = 110 mm/4.331 in 249-126 10						I <sub>N</sub> 24 A 281-407 100 (4 x 25)		
L = 250 mm/9.843 in 249-127 10								

① Approvals are available online at: [www.wago.com](http://www.wago.com).

# Through/Ground (Earth) Conductor and Terminal Blocks, Angled Type

## Series 280 (2.5 mm<sup>2</sup>/AWG 12) and Series 281 (4 mm<sup>2</sup>/AWG 12)

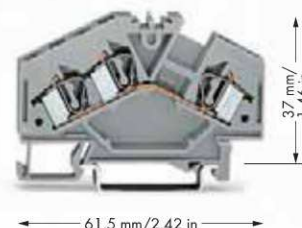
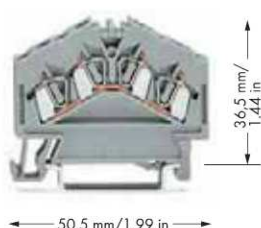
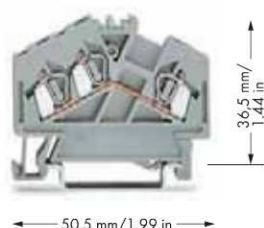
CAGE CLAMP®

























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

① Approvals

① Approvals



Color	Item No.	PU	Color	Item No.	PU	Color	Item No.	PU
<b>3-conductor through terminal block</b>			<b>4-conductor through terminal block</b>			<b>3-conductor through terminal block</b>		
gray	280-641	100	gray	280-646	100	gray	281-631	100
blue	280-651	100	blue	280-656	100	blue	281-651	100
orange	280-654	100	orange	280-946	100	light gray 	281-998	100
light gray 	280-998	100	light gray 	280-996	100	<b>3-conductor (ground) earth terminal block</b>		
<b>2-conductor (ground) earth terminal block</b>			<b>Notice:</b>			green-yellow 281-637 100		
green-yellow	280-637	100	These terminal blocks can only be commoned with			green-yellow 		
green-yellow 	280-637/999-950	100	280 Series Comb-Style Jumper Bars!			green-yellow 		
<b>3-conductor screen terminal block</b>								
white	280-640	100						
<b>Other terminal blocks with the same profile:</b>								
Spacer 280-654/056-000								
<b>End and intermediate plate, 2.5 mm/0.098 in thick</b>			<b>End and intermediate plate, 2.5 mm/0.098 in thick</b>			<b>End and intermediate plate, 2.5 mm/0.098 in thick</b>		
	orange 280-313	100 (4 x 25)		orange 280-313	100 (4 x 25)		orange 281-313	100 (4 x 25)
	gray 280-312	100 (4 x 25)		gray 280-312	100 (4 x 25)		gray 281-312	100 (4 x 25)
	light gray 280-354	100 (4 x 25)		light gray 280-354	100 (4 x 25)		light gray 281-357	100 (4 x 25)
<b>Separator plate, oversized, 2.5 mm/0.098 in thick</b>			<b>Separator plate, oversized, 2.5 mm/0.098 in thick</b>			<b>Separator plate, oversized, 2 mm/0.079 in thick</b>		
	orange 280-318	100 (4 x 25)		orange 280-318	100 (4 x 25)		orange 281-318	100 (4 x 25)
	gray 280-348	100 (4 x 25)		gray 280-348	100 (4 x 25)		gray 281-348	100 (4 x 25)
	light gray 280-355	100 (4 x 25)		light gray 280-355	100 (4 x 25)		light gray 281-358	100 (4 x 25)
<b>Accessories, Series 280</b> Appropriate marking systems: WMB/WSB/WFB			<b>Series 281</b> Appropriate marking systems: WMB/WSB/WFB					
<b>Adjacent jumper, insulated, I<sub>N</sub> 24 A</b>			<b>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</b>			<b>Adjacent jumper, insulated, I<sub>N</sub> 32 A</b>		
	gray 280-402	200 (8 x 25)		yellow 280-415	100 (4 x 25)		gray 281-402	200 (8 x 25)
	yellow-green 280-422	200 (8 x 25)					yellow-green 281-422	200 (8 x 25)
<b>Alternate jumper, insulated, I<sub>N</sub> 24 A</b>			<b>Screwless end stop, 6 mm/0.236 in wide</b>			<b>Alternate jumper, insulated, I<sub>N</sub> 32 A</b>		
	gray 280-409	100 (4 x 25)		249-116	100 (4 x 25)		gray 281-409	100 (4 x 25)
				10 mm/0.394 in wide				
				249-117	50 (2 x 25)			
<b>Staggered jumper, insulated, I<sub>N</sub> 24 A</b>			<b>Test plug adapter, for terminal blocks 1.5 - 4 mm<sup>2</sup>/</b>			<b>Staggered jumper, insulated, I<sub>N</sub> 32 A,</b>		
	5 mm/0.197 in wide			AWG 16 - 12, 5 mm/0.197 in wide			width 6 mm/0.236 in	
	from 1 to 2 780-452	100 (4 x 25)		280-404	100 (4 x 25)		from 1 to 2 781-452	100 (4 x 25)
	from 1 to 3 780-453	100 (4 x 25)		for 210-137 Test Plug			from 1 to 3 781-453	100 (4 x 25)
	from 1 to 4 780-454	100 (4 x 25)	<b>Insulation stop,</b>				from 1 to 4 781-454	100 (4 x 25)
	from 1 to 5 780-455	50 (2 x 25)		5 pieces/strip			from 1 to 5 781-455	50 (2 x 25)
	:	:		200 strips			from 1 to 6 781-456	50 (2 x 25)
	from 1 to 8 780-458	50 (2 x 25)						
<b>Push-in type wire jumper, insulated, I<sub>N</sub> 9 A</b>			white 280-470 0.08 mm <sup>2</sup> - 0.2 mm <sup>2</sup> /AWG 28 - 24					
	L = 60 mm/2.362 in	249-125 10	light gray 280-471 0.25 mm <sup>2</sup> - 0.5 mm <sup>2</sup> /AWG 12 - 20					
	L = 110 mm/4.331 in	249-126 10	dark gray 280-472 0.75 mm <sup>2</sup> - 1 mm <sup>2</sup>					
	L = 250 mm/9.843 in	249-127 10	For additional accessories, see page 52.					
<b>Operating tool, with partially insulated shaft,</b>			② Suitable for Ex i applications			② Suitable for Ex i applications		
	(3.5 x 0.5) mm/(0.137 x 0.020) in	210-720 1	② Suitable for Ex e II applications			② Suitable for Ex e II applications		
			0.2 - 2.5 mm <sup>2</sup> AWG 24 - 12			0.2 - 4 mm <sup>2</sup> AWG 24 - 12		
			550 V~, 20 A			550 V~, 30 A		

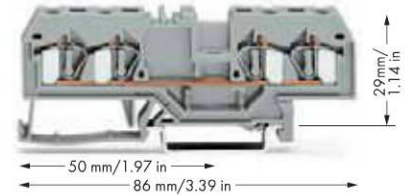
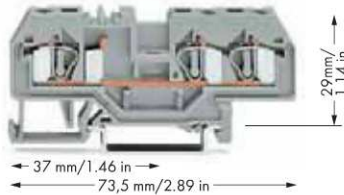
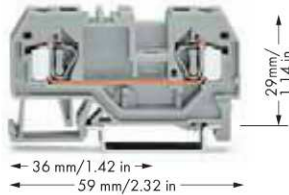
Please find the entire product range in our Full Line Catalog, Volume 1. More information at [www.wago.com](http://www.wago.com).

\*AWG 12: THHN, THWN



# Through/Ground (Earth) Conductor /Shield (Screen) and Terminal Blocks 4 mm<sup>2</sup>/AWG 12 Series 281

<p>0.08 – 4 mm<sup>2</sup> 800 V/8 kV/3 I<sub>N</sub> 32 A</p> <p>Terminal block width 6 mm/0.236 in 9 – 10 mm / 0.37 in</p> <p>ⓘ Approvals</p>	<p>AWG 28 – 12 600 V, 20 A </p> <p>600 V, 15 A </p>	<p>0.08 – 4 mm<sup>2</sup> 800 V/8 kV/3 I<sub>N</sub> 32 A</p> <p>Terminal block width 6 mm/0.236 in 9 – 10 mm / 0.37 in</p> <p>ⓘ Approvals</p>	<p>AWG 28 – 12 600 V, 20 A </p> <p>600 V, 15 A </p>	<p>0.08 – 4 mm<sup>2</sup> 800 V/8 kV/3 I<sub>N</sub> 26 A</p> <p>Terminal block width 6 mm/0.236 in 9 – 10 mm / 0.37 in</p> <p>ⓘ Approvals</p>	<p>AWG 28 – 12 600 V, 20 A </p> <p>600 V, 15 A </p>
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Color	Item No.	PU	Color	Item No.	PU	Color	Item No.	PU
<b>2-conductor through terminal block</b>			<b>3-conductor through terminal block</b>			<b>4-conductor through terminal block</b>		
gray	281-901	50	gray	281-681	50	gray	281-652	50
blue	281-904	50	blue	281-684	50	blue	281-654	50
orange	281-902	50	orange	281-678	50	orange	281-653	50
red	281-903	50	red	281-679	50	red	281-663	50
black	281-905	50	black	281-685	50	black	281-664	50
yellow	281-906	50	yellow	281-686	50	yellow	281-668	50
light gray	281-992	50	light gray	281-993	50	light gray	281-994	50
<b>2-conductor (ground) earth terminal block</b>			<b>3-conductor (ground) earth terminal block</b>			<b>4-conductor ground (earth) terminal block</b>		
green-yellow	281-907	50	green-yellow	281-687	50	green-yellow	281-657	50
green-yellow	281-907/999-950	50	green-yellow	281-687/999-950	50	green-yellow	281-657/999-950	50
<b>Other terminal blocks with the same profile:</b>			<b>Other terminal blocks with the same profile:</b>			<b>Other terminal blocks with the same profile:</b>		
Diode term. blocks	281-915/...		Diode term. blocks	281-673/...		Diode term. blocks	281-665/...	
Disconn. term. blocks	281-912	page 69	Disconn. term. blocks	281-683	page 69	Disconn. term. blocks	281-659	page 69
Carrier term. blocks	281-916	page 68	Carrier term. blocks	281-610	page 68	Carrier term. blocks	281-656	page 68
<b>End and intermediate plate, 2.5 mm/0.098 in thick</b>			<b>End and intermediate plate, 2.5 mm/0.098 in thick</b>			<b>End and intermediate plate, 2.5 mm/0.098 in thick</b>		
orange	281-329	100 (4 x 25)	orange	281-326	100 (4 x 25)	orange	281-335	100 (4 x 25)
gray	281-328	100 (4 x 25)	gray	281-324	100 (4 x 25)	gray	281-334	100 (4 x 25)
light gray	281-349	100 (4 x 25)	light gray	281-355	100 (4 x 25)	light gray	281-345	100 (4 x 25)
<b>Separator plate, oversized, 2 mm/0.079 in thick</b>			<b>Separator plate, oversized, 2 mm/0.079 in thick</b>			<b>Separator plate, oversized, 2 mm/0.079 in thick</b>		
orange	281-331	100 (4 x 25)	orange	281-346	100 (4 x 25)	orange	281-339	100 (4 x 25)
gray	281-330	100 (4 x 25)	gray	281-344	100 (4 x 25)	gray	281-338	100 (4 x 25)
light gray	281-350	100 (4 x 25)	light gray	281-356	100 (4 x 25)	light gray	281-347	100 (4 x 25)
Separator for Ex e/Ex i applications see page 30			Separator for Ex e/Ex i applications see page 30			Separator for Ex e/Ex i applications see page 30		
<b>Accessories, Series 281</b>			Appropriate marking systems: <b>WMB/WSB/WFB</b>					
<b>Adjacent jumper, insulated, I<sub>N</sub> 32 A</b>			<b>Comb-style jumper bar, insulated, I<sub>N</sub> = I<sub>N</sub> of term. block</b>			<b>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</b>		
gray	281-402	200 (8 x 25)	2-way	281-482	100 (4 x 25)	yellow	281-415	100 (4 x 25)
yellow-green	281-422	200 (8 x 25)	3-way	281-483	100 (4 x 25)			
			5-way	281-485	100 (4 x 25)			
<b>Alternate jumper, insulated, I<sub>N</sub> 32 A</b>			<b>Operating tool, insulated</b>			<b>Screwless end stop, 6 mm/0.236 in wide</b>		
gray	281-409	100 (4 x 25)	2-way	280-432	1		249-116	100 (4 x 25)
			3-way	280-433	1			10 mm/0.394 in wide
			5-way	280-440	1		249-117	50 (2 x 25)
<b>Staggered jumper, insulated, I<sub>N</sub> 32 A</b>			<b>Insulation stop,</b>			<b>Test plug adapter, for terminal blocks 1.5 - 4 mm<sup>2</sup>/</b>		
width 6 mm/0.236 in			5 pieces/strip			AWG 16 - 12, 5 mm/0.197 in wide		
from 1 to 2	781-452	100 (4 x 25)	200 strips				280-404	100 (4 x 25)
from 1 to 3	781-453	100 (4 x 25)				for 210-137 Test Plug		
from 1 to 4	781-454	100 (4 x 25)	white	281-470	0.08 mm <sup>2</sup> - 0.2 mm <sup>2</sup> /AWG 28 - 24	<b>Test plug adapter, for terminal blocks 1.5 - 10 mm<sup>2</sup>/</b>		
from 1 to 5	781-455	50 (2 x 25)	light gray	281-471	0.25 mm <sup>2</sup> - 0.5 mm <sup>2</sup> /AWG 12 - 20	AWG 16 - 12, 8 mm/0.315 in wide		
from 1 to 6	781-456	50 (2 x 25)	dark gray	281-472	0.75 mm <sup>2</sup> - 1.5 mm <sup>2</sup> /AWG 18 - 16	209-170 50 (2 x 25)		
<b>Push-in type wire jumper, insulated, I<sub>N</sub> 9 A</b>			ⓘ Suitable for Ex i applications			for test plug Ø 4 mm/0.157 in		
L = 60 mm/2.362 in	249-125	10	ⓘ Suitable for Ex e II applications			<b>Test plug, 6 mm/0.236 in wide, with CAGE CLAMP®</b>		
L = 110 mm/4.331 in	249-126	10	0.2 - 4 mm <sup>2</sup>			for 0.08 - 2.5 mm <sup>2</sup> /AWG 28-14		
L = 250 mm/9.843 in	249-127	10	550 V~, 30 A			I <sub>N</sub> 24 A 281-407 100 (4 x 25)		

ⓘ Approvals are available online at: [www.wago.com](http://www.wago.com).

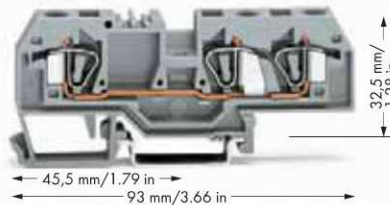
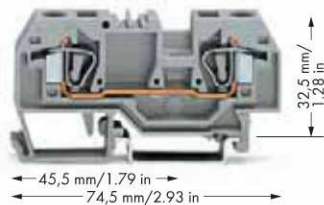
For technical explanations and abbreviations, see technical section.

# Through/Ground (Earth) Conductor and Terminal Blocks 6 mm<sup>2</sup>/AWG 10 Test Plug Modules with CAGE CLAMP®

CAGE CLAMP®

Series 282  
Series 249 and 709

<p>0.2 – 6 mm<sup>2</sup> 800 V/8 kV/3 I<sub>N</sub> 41 A</p> <p>Terminal block width 8 mm / 0.315 in 12 – 13 mm / 0.49 in</p> <p>Approvals</p>	<p>AWG 24 – 10 600 V, 30 A 600 V, 40 A</p>	<p>0.2 – 6 mm<sup>2</sup> 800 V/8 kV/3 I<sub>N</sub> 41 A</p> <p>Terminal block width 8 mm / 0.315 in 12 – 13 mm / 0.49 in</p> <p>Approvals</p>	<p>AWG 24 – 10 600 V, 30 A 600 V, 10 A</p>	<p>Test plug modules for 280, 281, 282 and 284 Series Rail-Mounted Terminal Blocks</p>
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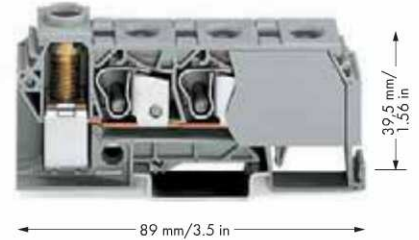
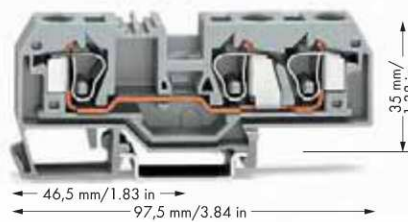
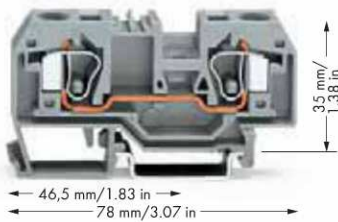
Color	Item No.	PU	Color	Item No.	PU	Item No.	PU
<b>2-conductor through terminal block</b>			<b>3-conductor through terminal block</b>			<b>Test plug module with CAGE CLAMP®,</b>	
gray	282-901	50	gray	282-681	25	version using jumper contact position in current bar,	
blue	282-904	50	blue	282-684	25	gray, module width 5 mm/0.197 in, suitable for all	
orange	282-902	50	orange	282-682	25	WAGO 280 Series Rail-Mounted Terminal Blocks	
light gray Ex	282-992	50	light gray Ex	282-993	25	<b>249-106</b>	100 (4 x 25)
<b>2-conductor (ground) earth terminal block</b>			<b>3-conductor (ground) earth terminal block</b>			<b>Spacer module, for bridging over commoned terminal</b>	
green-yellow	282-907	50	green-yellow	282-687	25	blocks, gray, module width 5 mm/0.197 in	
green-yellow Ex	282-907/999-950	50	green-yellow Ex	282-687/999-950	25	<b>249-107</b>	100 (4 x 25)
						<b>Test plug module with CAGE CLAMP®,</b>	
						version using jumper contact position in current bar,	
						gray, module width 6 mm/0.236 in, suitable for all	
						WAGO 281 Series Rail-Mounted Terminal Blocks	
						<b>249-147</b>	
						100 (4 x 25)	
						<b>Spacer module, for bridging over commoned terminal</b>	
						blocks, gray, module width 6 mm/0.236 in	
						<b>249-148</b>	
						100 (4 x 25)	
<b>End and intermediate plate, 2.5 mm/0.098 in thick</b>			<b>End and intermediate plate, 2.5 mm/0.098 in thick</b>			<b>Test plug module with CAGE CLAMP®,</b>	
orange	282-328	100 (4 x 25)	orange	282-339	100 (4 x 25)	version using jumper contact position in current bar,	
gray	282-325	100 (4 x 25)	gray	282-308	100 (4 x 25)	gray, module width 8 mm/0.315 in, suitable for all	
light gray	282-330	100 (4 x 25)	light gray	282-341	100 (4 x 25)	WAGO 282 Series Rail-Mounted Terminal Blocks	
						<b>709-310</b>	
						100 (4 x 25)	
<b>Separator plate, oversized, 2 mm/0.079 in thick</b>			<b>Separator plate, oversized, 2 mm/0.079 in thick</b>			<b>Spacer module, for bridging over commoned terminal</b>	
orange	282-329	100 (4 x 25)	orange	282-340	100 (4 x 25)	blocks, gray, module width 8 mm/0.315 in	
gray	282-326	100 (4 x 25)	gray	282-309	100 (4 x 25)	<b>709-311</b>	100 (4 x 25)
light gray	282-331	100 (4 x 25)	light gray	282-342	100 (4 x 25)	<b>Spacer plate, - only for 284 Series -</b>	
						modular, gray, width 2 mm/0.079 in,	
						snap on 709-310 Test Plug Modules and	
						709-311 Spacer Modules for testing of 284 Series Rail-	
						Mounted Terminal Blocks	
						<b>709-312</b>	
						100 (4 x 25)	
<b>Accessories, Series 282</b>			Appropriate marking systems: <b>WMB/WSB/WFB</b>				
<b>Adjacent jumper, insulated, I<sub>N</sub> 41 A</b>			<b>Protective warning marker, with high-voltage symbol,</b>				
gray	282-402	100 (4 x 25)	for 5 terminal blocks				
yellow-green	282-422	100 (4 x 25)	yellow	282-415	100 (4 x 25)		
<b>Alternate jumper, insulated, I<sub>N</sub> 41 A</b>			<b>Screwless end stop, 6 mm/0.236 in wide</b>				
gray	282-409	100 (4 x 25)		249-116	100 (4 x 25)		
			10 mm/0.394 in wide				
			249-117			50 (2 x 25)	
<b>Step-down jumper, insulated,</b>			<b>Test plug adapter, suitable for terminal blocks 1.5 - 10 mm<sup>2</sup>/</b>				
gray		50 (2 x 25)		209-170	50 (2 x 25)		
			AWG 16 - 12, 8 mm/0.315 in wide				
			for test plug Ø 4 mm/0.157 in				
284/282 - 281/280/279	284-414	I <sub>N</sub> 15 A	<b>Banana plugs, only for protective extra-low voltage (42V)</b>				
284/282 - 282/281	284-413	I <sub>N</sub> 30 A	black	215-311	50		
<b>Cover plate, for step-down jumper application only,</b>			red	215-212	50		
1 mm/0.039 in thick,			blue	215-711	50		
for 2-conductor terminal blocks			Other colors and technical data see page 181				
gray	282-357	25	Suitable for Ex i applications				
for 3-conductor terminal blocks			Ex Suitable for Ex e II applications				
gray	282-358	25	0.5 - 6 mm <sup>2</sup> AWG 20 - 10				
			550 V~, 39 A Jumper 35 A				



Test plug adapter strips are directly inserted into the jumper contact slots in the current bar (picture shows 282 Series).

# Through/Ground (Earth) Conductor and Terminal Blocks 10 mm<sup>2</sup>/AWG 8, Distribution Terminal Blocks Series 284

<p>0.2 – 10 mm<sup>2</sup> 800 V/8 kV/3 I<sub>N</sub> 57 A</p> <p>Terminal block width 10 mm / 0.394 in 12 – 13 mm / 0.49 in</p> <p>ⓘ Approvals</p>	<p>AWG 24 – 8 600 V, 50 A </p> <p>600 V, 54 A </p>	<p>0.2 – 10 mm<sup>2</sup> 800 V/8 kV/3 I<sub>N</sub> 57 A</p> <p>Terminal block width 10 mm / 0.394 in 12 – 13 mm / 0.49 in</p> <p>ⓘ Approvals</p>	<p>AWG 24 – 8 600 V, 50 A </p> <p>600 V, 54 A </p>	<p>3 x 0.2 – 10 mm<sup>2</sup> ⓘ 1 x 6 – 35 mm<sup>2</sup> ⓘ 800 V/8 kV/3; I<sub>N</sub> 125 A</p> <p>Terminal block width 17.5 mm / 0.689 in 12 – 14 mm / 0.51 in</p> <p>ⓘ Approvals</p>	<p>AWG 24 – 8 ⓘ AWG 10 – 2 ⓘ 600 V, 115 A </p>
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Color	Item No.	PU	Color	Item No.	PU	Color	Item No.	PU
<b>2-conductor through terminal block</b>			<b>3-conductor through terminal block</b>			<b>Distribution terminal block,</b>		
gray	284-901	25	gray	284-681	25	with 3 x CAGE CLAMP® connection ⓘ 10 mm <sup>2</sup> /AWG 8		
blue	284-904	25	blue	284-684	25	and 1 x screw clamp connection ⓘ 35 mm <sup>2</sup> /AWG 2		
orange	284-902	25	orange	284-682	25	gray	284-621	15
light gray	284-992	25	light gray	284-993	25	blue	284-624	15
<b>2-conductor (ground) earth terminal block</b>			<b>3-conductor (ground) earth terminal block</b>					
green-yellow	284-907	25	green-yellow	284-687	25			
green-yellow	284-907/999-950	25	green-yellow	284-687/999-950	25			



Termination of conductor 35 mm<sup>2</sup>/AWG 2. Screw clamp connection, side-entry.



Termination of conductor 10 mm<sup>2</sup>/AWG 8. CAGE CLAMP® connection, front-entry.

<p><b>End and intermediate plate, 2.5 mm/0.098 in thick</b></p> <p>orange 284-328 100 (4 x 25)</p> <p>gray 284-325 100 (4 x 25)</p> <p>light gray 284-330 100 (4 x 25)</p>	<p><b>End and intermediate plate, 2.5 mm/0.098 in thick</b></p> <p>orange 284-339 100 (4 x 25)</p> <p>gray 284-308 100 (4 x 25)</p> <p>light gray 284-341 100 (4 x 25)</p>
<p><b>Separator plate, oversized, 2 mm/0.079 in thick</b></p> <p>orange 284-329 100 (4 x 25)</p> <p>gray 284-326 100 (4 x 25)</p> <p>light gray 284-331 100 (4 x 25)</p>	<p><b>Separator plate, oversized, 2 mm/0.079 in thick</b></p> <p>orange 284-340 100 (4 x 25)</p> <p>gray 284-309 100 (4 x 25)</p> <p>light gray 284-342 100 (4 x 25)</p>

Accessories, Series 284		Appropriate marking systems: WMB/WSB/WFB	
<p><b>Adjacent jumper, insulated, I<sub>N</sub> 57 A</b></p> <p>gray 284-402 100 (4 x 25)</p> <p>yellow-green 284-422 100 (4 x 25)</p>	<p><b>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</b></p> <p>yellow 284-415 50 (2 x 25)</p>		
<p><b>Alternate jumper, insulated, I<sub>N</sub> 57 A</b></p> <p>gray 284-409 50 (2 x 25)</p>	<p><b>Finger guard cover, serves as touchproof protection for unused clamping units</b></p> <p>yellow 284-400 100 (4 x 25)</p>		
<p><b>Test plug adapter, for terminal blocks 1.5 - 10 mm<sup>2</sup>/AWG 16 - 8, 8 mm/0.315 in wide</b></p> <p>209-170 50 (2 x 25)</p> <p>for test plug Ø 4 mm/0.157 in</p>	<p><b>Step-down jumper, insulated,</b></p> <p>gray 50 (2 x 25)</p>		
<p><b>Test plug module and spacer module, both with spacer plate, see page 55</b></p>	<p>284/282 - 281/280/279 284-414 I<sub>N</sub> 15 A</p> <p>284/282 - 282/281 284-413 I<sub>N</sub> 30 A</p>		
<p><b>Cover plate, for step-down jumper application only, 1 mm/0.039 in thick,</b></p> <p>for 2-conductor terminal blocks</p> <p>gray 284-357 25</p> <p>for 3-conductor terminal blocks</p> <p>gray 284-358 25</p>	<p> Suitable for Ex e II applications</p> <p>0.5 - 10 mm<sup>2</sup> AWG 20 - 8</p> <p>550 V~, 53 A</p>		

Rail-mounted distribution terminal block with 35 mm<sup>2</sup>/AWG 2 and 3 x 10 mm<sup>2</sup> (3 x AWG 8) front-entry CAGE CLAMP® connection. Snaps onto DIN 35 carrier rails according to EN 60675. The terminal block is closed on both sides, an end or intermediate plate is not necessary.

**In case of maximum wiring with 3 x 10 mm<sup>2</sup> (3 x AWG 8) on the distribution side the nominal current of 125 A should not be exceeded.**







<p><b>Comb-style jumper bar, insulated, Individual arrangement</b></p> <p>I<sub>N</sub> 125 A - 2 jumpers combined in one clamping unit 100 A</p> <p>2-way</p> <p>gray 284-412 100 (4 x 25)</p>
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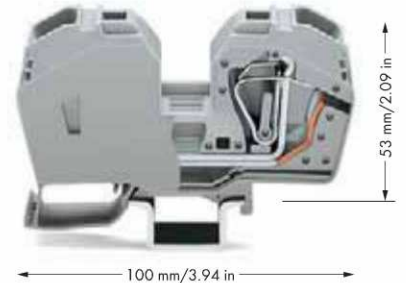
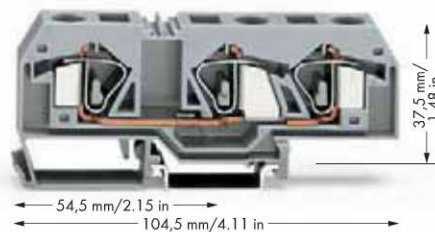
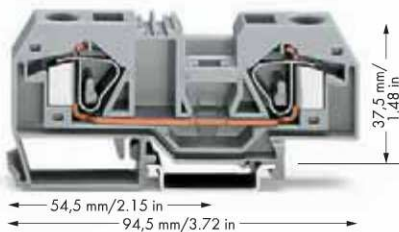
ⓘ Approvals are available online at: [www.wago.com](http://www.wago.com).










For technical explanations and abbreviations, see technical section.

# Through/Ground (Earth) Conductor and Terminal Blocks 16 mm<sup>2</sup> (AWG 6) / 35 mm<sup>2</sup> (AWG 2) Series 283 and 285

CAGE CLAMP®

<p>0.2 – 16 mm<sup>2</sup> 800 V/8 kV/3 I<sub>N</sub> 76 A</p> <p>Terminal block width 12 mm / 0.472 in 16 – 17 mm / 0.65 in</p> <p>① Approvals</p>	<p>AWG 24 – 6 600 V, 65 A  600 V, 70 A </p>	<p>0.2 – 16 mm<sup>2</sup> 800 V/8 kV/3 I<sub>N</sub> 76 A</p> <p>Terminal block width 12 mm / 0.472 in 16 – 17 mm / 0.65 in</p> <p>① Approvals</p>	<p>AWG 24 – 6 600 V, 65 A  600 V, 70 A </p>	<p>6 – 35 mm<sup>2</sup> 1000 V/8 kV/3 ③ I<sub>N</sub> 125 A</p> <p>Terminal block width 16 mm / 0.63 in 23 mm / 0.91 in ③</p> <p>① Approvals</p>	<p>AWG 8 – 2 600 V, 115 A  600 V, 140 A </p>
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Color	Item No.	PU	Color	Item No.	PU	Color	Item No.	PU
<b>2-conductor through terminal block</b>			<b>3-conductor through terminal block</b>			<b>2-conductor through terminal block, with integrated end plate</b>		
gray	283-901	20	gray	283-671	20	gray	285-635	15
blue	283-904	20	blue	283-674	20	blue	285-634	15
orange	283-902	20	orange	283-672	20	light gray 	285-992	15
light gray 	283-992	20	light gray 	283-993	20	<b>2-conductor (ground) earth terminal block</b>		
<b>2-conductor (ground) earth terminal block</b>			<b>3-conductor (ground) earth terminal block</b>			<b>2-conductor (ground) earth terminal block</b>		
green-yellow	283-907	20	green-yellow	283-677	20	green-yellow	285-637	15
green-yellow 	283-907/999-950	20	green-yellow 	283-677/999-950	20	green-yellow 	285-637/999-950	15
<b>Notice: These terminal blocks cannot be commoned using adjacent jumpers!</b>								
<b>End and intermediate plate, 2.5 mm/0.098 in thick</b>			<b>End and intermediate plate, 2.5 mm/0.098 in thick</b>					
orange	283-328	50 (2 x 25)	orange	283-352	50 (2 x 25)	Termination of conductor 35 mm <sup>2</sup> /AWG 2.		
gray	283-325	50 (2 x 25)	gray	283-350	50 (2 x 25)			
light gray	283-330	50 (2 x 25)	light gray	283-354	50 (2 x 25)			
<b>Separator plate, oversized, 2 mm/0.079 in thick</b>			<b>Separator plate, oversized, 2 mm/0.079 in thick</b>					
orange	283-329	50 (2 x 25)	orange	283-353	50 (2 x 25)			
gray	283-326	50 (2 x 25)	gray	283-351	50 (2 x 25)			
light gray	283-331	50 (2 x 25)	light gray	283-355	50 (2 x 25)			
<b>Accessories, Series 283</b>			Appropriate marking systems: <b>WMB/WSB/WFB</b>			<b>Series 285</b> Appropriate marking systems: <b>Miniature WSB WMB/WSB</b>		
<b>Adjacent jumper, insulated, I<sub>N</sub> 70 A</b>			<b>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</b>			<b>Adjacent jumper, insulated, I<sub>N</sub> 85 A</b>		
gray	283-402	50 (2 x 25)	yellow	283-415	50 (2 x 25)	gray	285-435	50 (2 x 25)
yellow-green	283-422	50 (2 x 25)	<b>Finger guard cover, serves as touchproof protection for unused clamping units</b>			<b>Step-down jumper, insulated, I<sub>N</sub> 32 A, from 35 mm<sup>2</sup>/AWG 2 to 4 mm<sup>2</sup>/AWG 12</b>		
<b>Alternate jumper, insulated, I<sub>N</sub> 76 A</b>			yellow			gray		
gray	283-409	50 (2 x 25)	yellow			283-414 50 (2 x 25)		
<b>Test plug adapter, for terminal blocks 1.5 - 16 mm<sup>2</sup>/AWG 16 - 6, 11.6 mm/0.457 in wide</b>			<b>Banana plugs, only for protective extra-low voltage (42V)</b>			<b>Protective warning marker, with high-voltage symbol, for 5 terminal blocks</b>		
gray	283-404	25	black	215-311	50	yellow	285-416	50 (2 x 25)
gray	283-404	25	red	215-212	50	<b>Finger guard cover, serves as touchproof protection for unused clamping units</b>		
gray	283-404	25	blue	215-711	50	yellow		
<b>Step-down jumper, insulated, I<sub>N</sub> 32 A, from 16 mm<sup>2</sup>/AWG 6 to 4 mm<sup>2</sup>/AWG 12</b>			<b>Operating tool, with partially insulated shaft (5.5 x 0.8) mm/(0.217 x 0.031) in</b>			yellow		
gray	283-414	50 (2 x 25)	210-721 1			285-401 100 (4 x 25)		
<b>Cover plate, for step-down jumper application only, 1 mm/0.039 thick, for 2-conductor terminal blocks</b>			 Suitable for Ex e II applications			 Suitable for Ex e II applications		
gray	283-357	25	0.5 - 16 mm <sup>2</sup> 550 V~, 68 A	AWG 20 - 6 Jumper 63 A	6 - 35 mm <sup>2</sup> 750 V~, 120 A			
						AWG 8 - 2		
						6 - 25 mm <sup>2</sup> for ground (earth) terminal blocks		
						AWG 8 - 4		

Please find the entire product range in our Full Line Catalog Volume 1. More information at [www.wago.com](http://www.wago.com).

③ 16 mm/0.63 in for 35 mm<sup>2</sup> "stranded"