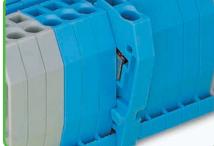
Rail-Mounted Terminal Blocks 279 to 285 Series and 880 Series

Assembly



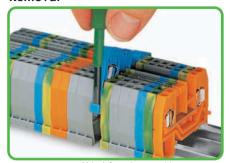
By snapping a ground conductor terminal block onto the carrier rail, a direct electrical connection is automatically made to the rail

Assembly



Quick assembly keys prevent reverse mounting.

Removal



Removing a terminal block from the assembly.

Commoning



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.

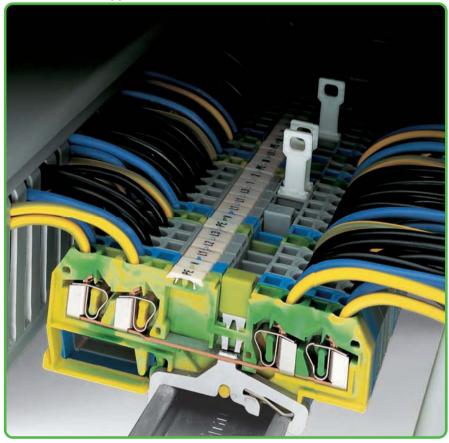
Commoning with step-down jumpers



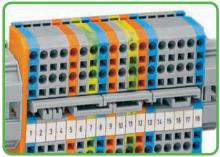
Commoning terminal blocks of different sizes – step down.

For application notes, see page 178.

According to EN 60947-7-2 (VDE 0611, part 3), steel carrier rails shall not be used for PEN applications



Commoning



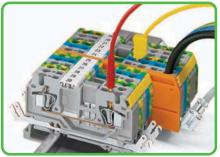
Staggered jumpers for sophisticated circuit requirements. Push jumpers down firmly until fully inserted. For additional notes, see page 201.



CAGE CLAMP® clamps the following copper conductors:*

solid

Testing - 880 Series



880 Series terminal blocks have an additional test slot for 2 mm \varnothing or 2.3 mm \varnothing test plugs.



stranded

Protective warning marker



Protective warning markers inserted into the operating



fine-stranded, also with tinned single strands

^{*} For aluminum conductors, see notes in Section 14.

CAGE CLAMP®

- Description and Handling -

CAGE CLAMP® connection



Conductor termination

CAGE CLAMP® connection



Conductor termination

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

section of the wire.

Testing



Testing with test plug.
Test plug fitted with CAGE CLAMP®.

Testing



L-type test plug modules fitted with CAGE CLAMP®. For application notes, see page 194.

Testing



B-type test plug modules fitted with CAGE CLAMP®. For application notes, see page 195.

Marking



Marking with WMB Multi marking system. For additional systems, see Section 13.



fine-stranded, tip-bonded

Insulation stop

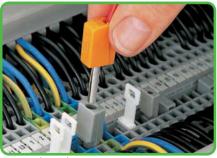


Insertion of insulation stop.
For application notes, see page 199.



fine-stranded, with ferrule (gastight crimped)

Testing



Testing with test plug.
Using 209-170 test plug adapter.



fine-stranded, with pin terminal (gastight crimped)



Through/Ground Conductor/Shield and Ex Terminal Blocks 2.5 mm² 280 Series



0.08 - 2.5 mm² 800 V/8 kV/3 **1** 600 V, 20 A**N** I_N 24 A

AWG 28 - 12 *

Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in 2



→ 50,5 mm/1.99 in

- * AWG 12: THHN, THWN
- 800 V = rated voltage8 kV = rated surge voltage3 = pollution degree (also see Section 14)
- 2 Strip length, see packaging or instructions.
- 3 Suitable for Ex i applications
- 4 Suitable for Ex e II applications 0.2 mm² 2.5 mm²/AWG 24 12* 550 V, 23 A (also see Section 14)
 Using staggered jumpers reduces the maximum rated voltage to 275 V.
- 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

	ltem	No.	Pack. Unit	280 Series Accessories Appropriate marking system					o. \A/AAD /\A/A	۸۵ امال ۸۸	/CD	
3-conductor	through termin	nal block				App	огорпате та	0 /	•	to inline/ vv	ГБ	
gray 280-641 100			(see Section 13)									
blue blue	280-6	551 🔞	100	Alterna	te jum	per, insulated,			Test plug,			
orange	280-6	554	100	100		I _N = I _N termino	al block			with 500 m	m cable,	
light gray		998 4	100		4	gray	280-409	100 (4x25)		2 mm Ø		
007				I.	Ų.	3 ,			A STATE OF THE STA	red	210-136	5
3-conductor ground terminal block				Staggered jumper,					Test plug,			
green-yell	ow 280-6	537	100	6		insulated,				with 500 m	m cable,	
green-yell	ow 🛭 280-6	37/999-950	4 100			width 5 mm/0	0.197 in,			2.3 mm Ø		
<i>O</i> 0 ,				18		I _N 24 A				yellow	210-137	5
3-conductor	shield terminal	l block				from 1 to 2	780-452	100 (4×25)	Test plug ada		ride.	
white	280-6	540	100			from 1 to 3	780-453	100 (4x25)	program		blocks 1.5 - 4 m	nm²
· ,,,,,,,,						from 1 to 4	780-454	100 (4x25)	- 10		7 test plug 2.3 m	
						from 1 to 5	780-455	50 (2x25)	I	gray	280-404	100 (4x2
200 Carias Assassarias						from 1 to 6	780-456	50 (2×25)	Test plug ada	<u> </u>		100 (4,72)
280 Series Accessories						from 1 to 7	780-457	50 (2×25)	resi piog dad		blocks 1.5 - 10	mm ²
						from 1 to 8	780-458	50 (2x25)	10			IIIII-,
						110111 1 10 6	780-438	30 (2X23)		for test plug		50 10 0
End and intermediate plate, 2.5 mm thick				David to					D	gray	209-170	50 (2x2
ena ana inte	Push-in type wire jumper,					Banana plug, 5 for socket 4 mm Ø,						
	orange	280-313	100 (4x25)	6		insulated,			6	J		
	gray	280-312	100 (4x25)	Ē)	I _N 9 A,	- 0		-	color mixed		
	light gray	280-354	100 (4x25)	350	2	wire size 0.75					215-111	
Separator, oversized, 2.5 mm thick						L = 60 mm	249-125	10	Test plug ada	•		
	orange	280-318	100 (4x25)			L = 110 mm	249-126	10	m	with CAGE		
	gray	280-348	100 (4x25)			L = 250 mm	249-127	10	Y	for 0.08 - 2	.5 mm ²	
	light gray	280-355	100 (4x25)						4.	I _N 24 A	281-407	100 (4x25
Ex e/Ex i sep	Comb-s	Comb-style jumper bar, insulated,					WMB Multi marking system,					
	3 mm thick			6		$I_N = I_N$ terminal block			10 strips with 10 markers per card,			
	120 mm	209-191	50 (2×25)			2-way	280-482	200 (8x25)		stretchable	5 - 5.2 mm	
li-						3-way	280-483	200 (8×25)	Maria	plain	793-5501	
Spacer of same shape,				Alternate comb-style jumper bar,					WMB Multi marking system, plain,			
5 mm thick				insulated,					10 strips with 10 markers per card,			
100 740	orange	280-654/0	056-000		¥	$I_N = I_N \text{ termino}$	al block			stretchable	5 - 5.2 mm	
2			100 (4x25)			2-way	280-492	200 (8x25)	and the same of	yellow	793-5501/	/000-002
Insulation st	ор,			Operat	ing to	ol, of insulating	material			red	793-5501/	/000-005
6	5 pcs/strip,				-	2-way	280-432	1		blue	793-5501/	/000-006
49999	0.08 - 0.2 mr	m ² "s" (0.14 m	m² "f-st")			3-way	280-433	1		gray	793-5501/	/000-007
800	white	280-470	200 (8x25)	_	-	,				orange	793-5501/	/000-012
Insulation st			,: -/	Protecti	ve wo	rning marker,	,			light green	793-5501/	
5 pcs/strip,				with high-voltage symbol, black,						green	793-5501/	
00000	0.25 - 0.5 mr	m ²				for 5 terminal blocks				violet	793-5501/	
Service .		light gray 280-471 200 (8x25)		J. March	ALC: N	yellow 280-415 100 (4x25)			,,,,,,,			
Insulation st		200-47 1	200 (0,20)	Test plu	a mo		200-413	100 (4,20)	Screwless en	d ston		
6	5 pcs/strip,			Test plug module, 5 can be snapped together,					for DIN 35 rail,			
	0.75 - 1 mm ²				[5 mm wide	ou logelliel,		- Contra	6 mm wide	run,	
-		280-472	200 (8×25)	- 1			280-418	100 (4x25)	-		249-116	100 (4x2
A diagont i	dark gray	200-47 2	200 (0X23)	Smarra	me al	gray	200-410	100 (4x23)	Seroudese	gray	247-110	100 (4XZ
Aajacent jun	Spacer module,					Screwless end stop, for DIN 35 rail.						
17		$I_N = I_N \text{ terminal block}$				can be snapped together,			D. C.		- /	
	gray	280-402	200 (8x25)	10	t	5 mm wide			-110-	10 mm wide		
5314				- 61		gray	280-419	100 (4x25)	200	gray	249-117	50 (2x2