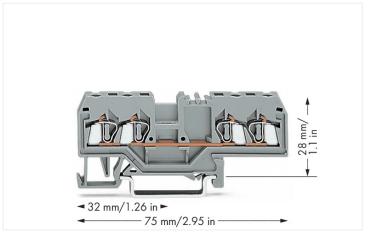
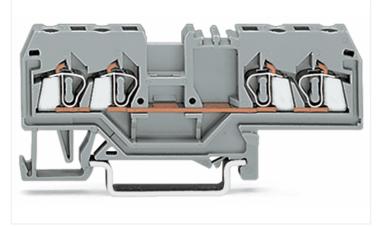
4-conductor through terminal block; 2.5 mm²; center marking; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 2,50 mm²; gray



https://www.wago.com/280-633





Color: ■ gray



Similar to illustration

Through terminal block, 280 Series, gray

Easily, quickly and safely connect conductors with this through terminal block (item number 280-633). Whether in industrial or building applications, our rail-mount through terminal blocks are the perfect solution to quickly and securely connect electrical conductors. Depending on the variant, you can use them for either typical through-wiring or potential distribution. Our through rail-mount terminal block is rated for 800 V and is designed for use with a rated current of up to 20 A. Ensure that the strip lengths are between 8 mm and 9 mm when connecting conductors to this through terminal block. This product features conductor terminals and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection offers a convenient and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. Depending on the conductor type, this through terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm². It has one level. The single potential can connect using the four clamping points The gray housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this through rail-mount terminal block. These through rail-mount terminal blocks are mounted using DIN-35 rails.. The front-entry wiring makes it possible to connect copper, aluminum conductors.

Electrical data				
Ratings per	IEC	'EN 60947-	7-1	
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Nominal voltage	800 V	-	-	
Rated surge voltage	8 kV	-	-	
Rated current	20 A	-	-	

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	-	600 V	-
Rated current	-	20 A	-

Data Sheet | Item Number: 280-633 https://www.wago.com/280-633



Approvals per	CSA 22.2 No 158		
Use group	В	С	D
Rated voltage	-	600 V	-
Rated current	-	24 A	-

Power Loss	
Power loss, per pole (potential)	0.532 W
Rated current I_N for specified power loss	20 A
Resistance value for specified, current- dependent power loss	0.00133 Ω

Front-entry wiring

WAGO Spring-Clamp Terminal Blo suitable for solid aluminum condu up to 4 mm²/12 AWGO "All. Contact Paste 249-130 is used f mination. "Alu-Plus" Contact Paste Advanta. • Automatically destroys the oxid-during clamping. • Prevents fresh oxidation at the cping point. • Prevents electrolytic corrosion I ween aluminum and copper condi (in the same terminal block). • Provides long-term protection a corrosion. Using terminal blocks with CAGE CLAMP® Spring Pressure Connec Technology, aluminum conductor first be cleaned with a blade and immediately inserted into the clan units filled with "Alu-Plus" contact It is also possible to apply WAGO "Plus" additionally on the whole su of the aluminum conductor before nation. Please note that the nominal curre must be adapted to the reduced or	ction data			
1 Connection technology CAGE CLAMP® Actuation type Operating tool Connectable conductor materials Copper Aluminum Connectable conductor materials (note) Terminating Aluminum Conduct WAGO Spring-Clamp Terminal Biole was defined in a management of the principle of soil aluminum conduct was defined in a management of the principle of soil aluminum conduct was defined in a management of the principle of the princ		4	Connection 1	
Actuation type Connectable conductor materials Connectable conductor materials (note) Connectable conductor materials (note) Connectable conductor materials (note) Connectable conductor materials (note) Connectable conductor materials (note) Aluminum Conductor WAGO Spring-Clamp Terminal Bio suitable for solid aluminum conductor materials (note) Alu-Plus" Contact Paste Advanta • Automatically destroys the oxid-during clamping. • Prevents fresh oxidation at the ciping point. • Prevents fresh oxidation at the ciping point. • Prevents fresh oxidation at the ciping point. • Prevents electrolytic corrosion I ween aluminum and copper condition the same terminal block). • Provides long-term protection a corrosion. Using terminal blocks with CAGE CLAMP® Spring Pressure Connect Technology, aluminum conductor first be cleaned with a blade and immediately inserted into the claim units filled with "Alu-Plus" contact It is also possible to apply WAGO 'Plus" additionally on the whole su of the aluminum conductor before nation. Please note that the nominal curre must be adapted to the reduced of thirty of the aluminum conductors 2.5 mm? = 16.4 mm² = 22.A 4 mm² = 22.A 4 mm² = 22.A 4 mm² = 22.A 4 mm² = 22.A 14 AWG Solid conductor O.08 2.5 mm² / 28 14 AWG Note (conductor cross-section) 12 AWG: THHN, THWN	ping units			OAGE OLAMBA
Connectable conductor materials (note) WaGO Spring-Clamp Terminal Blo suitable for solid aluminum condu up to 4 mm²/12 AWG if WAGO ML Contact Paste 249-130 is used finination. *Alu-Plus" Contact Paste Advanta Automatically destroys the oxididuring clamping. Prevents fresh oxidation at the oping point. Prevents electrolytic corrosion is ween aluminum and copper condi (in the same terminal block). Provides long-term protection a corrosion. Using terminal blocks with CAGE CLAMP* Spring Pressure Connect Technology, aluminum conductor first be cleaned with a blade and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inserted into the clan units filled with "Alu-Plus" contact and immediately inser	number of potentials		· ·	
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during clamping. Prevents fresh oxidation at the oping point. Prevents electrolytic corrosion I ween aluminum and copper condition the same terminal block). Provides long-term protection a corrosion. Using terminal blocks with CAGE CLAMP® Spring Pressure Connec Technology, aluminum conductor first be cleaned with a blade and immediately inserted into the clan units filled with "Alu-Plus" contact It is also possible to apply WAGO Plus" additionally on the whole su of the aluminum conductor before nation. Please note that the nominal curre must be adapted to the reduced of tivity of the aluminum conductors 2.5 mm² = 16 A 4 mm² = 22 A Solid conductor O.082.5 mm² / 2814 AWG Fine-stranded conductor O.082.5 mm² / 2814 AWG Note (conductor cross-section) 12 AWG: THHN, THWN				"Alu-Plus" Contact Paste Advantag
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must be adapted to the reduced of tivity of the aluminum conductors $2.5 \text{ mm}^2 = 16 \text{ A}$ $4 \text{ mm}^2 = 22 \text{ A}$ Solid conductor $0.08 \dots 2.5 \text{ mm}^2 / 28 \dots 14 \text{ AWG}$ Fine-stranded conductor $0.08 \dots 2.5 \text{ mm}^2 / 28 \dots 14 \text{ AWG}$ Note (conductor cross-section) $12 \text{ AWG: THHN, THWN}$				of the aluminum conductor before
Fine-stranded conductor 0.08 2.5 mm² / 28 14 AWG Note (conductor cross-section) 12 AWG: THHN, THWN				
Note (conductor cross-section) 12 AWG: THHN, THWN			Solid conductor	0.08 2.5 mm ² / 28 14 AWG
· · · · · · · · · · · · · · · · · · ·			Fine-stranded conductor	0.08 2.5 mm ² / 28 14 AWG
Strip length 8 9 mm / 0.31 0.35 inches			Note (conductor cross-section)	12 AWG: THHN, THWN
			Strip length	8 9 mm / 0.31 0.35 inches

Physical data	
Width	5 mm / 0.197 inches
Height	75 mm / 2.953 inches
Depth from upper-edge of DIN-rail	28 mm / 1.102 inches

Wiring direction

https://www.wago.com/280-633



Mechanical data

Mounting type DIN-35 rail
Marking level Center marking

Material data	
Note (material data)	Information on material specifications can be found here
Color	gray
Material group	1
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Fire load	0.146 MJ
Weight	9 g

Environmental requirements

Processing temperature $-35 \dots +85 \, ^{\circ} \! C$ Continuous operating temperature $-60 \dots +105 \, ^{\circ} \! C$

Commercial data	
Product Group	1 (Rail Mounted Terminal Blocks)
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918311137
Customs tariff number	85369010000

Product classification

UNSPSC 39121410

Environmental Product Compliance

RoHS Compliance Status Compliant,No Exemption

Approvals / Certificates

General approvals



Inc.





Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	1536071
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-154769
UL Underwriters Laboratories	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

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Approvals for marine applications



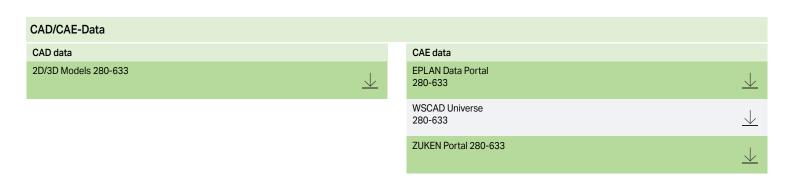


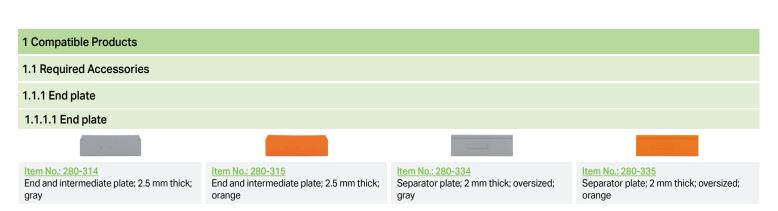


VERITAS	and a supplier of the supplier	
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
BV Bureau Veritas S.A.	EN 60947	07436/F0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 280-633

Documentation		
Additional Information		
Technical Section	pdf 2246.92 KB	<u>↓</u>





https://www.wago.com/280-633



1.2 Optional Accessories

1.2.1 DIN-rail

1.2.1.1 Mounting accessories



Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

Item No.: 210-198

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

Item No.: 210-508

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored

Item No.: 210-197

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored



Item No.: 210-506

Item No.: 210-112

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored

Item No.: 210-114

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715: silver-colored

Item No.: 210-118

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

Item No.: 210-115

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored



Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored

Item No.: 210-504

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored

Item No.: 210-113

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

Item No.: 210-505

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

1.2.2 End plate

1.2.2.1 End plate



Item No.: 284-335

Step-down cover plate; 1 mm thick; for 4conductor 280-633 terminal blocks; gray

Item No.: 284-345

Step-down cover plate; 1 mm thick; for 4conductor 280-633 terminal blocks; orange

1.2.3 Ferrule

1.2.3.1 Ferrule



Item No.: 216-301

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

Item No.: 216-302

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

Item No.: 216-201

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 4/09.90; white

Item No.: 216-101

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored

Item No.: 216-202

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray

Item No.: 216-102

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored

Item No.: 216-203

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item No.: 216-103

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated

Item No.: 216-204

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

Item No.: 216-104

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored



1.2.4 Installation

1.2.4.1 Cover



Item No.: 709-153

Cover; Type 1; suitable for cover carrier, type 1; 1 m long; transparent

1.2.4.2 Cover carrier



Item No.: 709-167

Cover carrier; Type 1; incl. fixing/retaining screws and knurled nut; suitable for 279 to 282 and 880 Series rail-mounted terminal blocks; suitable for 264 Series miniature rail-mounted terminal blocks; suitable for 270 Series sensor and actuator terminal blocks; gray

1.2.4.3 Mounting accessories





Item No.: 209-106

Mounting carrier; for isolated mounting on DIN 35 rails; gray

Item No.: 249-116

Screwless end stop; 6 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

1.2.5 Insulation stop

1.2.5.1 Insulation stop







Item No.: 280-470

Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "f-st"); 5 pieces/strip; white

Item No.: 280-471

Insulation stop; 0.25 - 0.5 mm²; 5 pieces/ strip; light gray

Item No.: 280-472

Insulation stop; 0.75 - 1 mm²; 5 pieces/ strip; black

1.2.6 Jumper

1.2.6.1 Jumper

Item No.: 280-490

Jumper; 10-way; insulated; gray

Item No.: 280-482

Jumper; 2-way; insulated; gray

Item No.: 280-492

Jumper; 2-way; insulated; gray

Item No.: 280-483

Jumper; 3-way; insulated; gray

Item No.: 280-484

Jumper; 4-way; insulated; gray

Item No.: 280-485

Jumper; 5-way; insulated; gray

Item No.: 280-402

Jumper; insulated; gray

Item No.: 280-409

Jumper; insulated; gray



Jumper; insulated; yellow-green

Item No.: 780-452

Staggered jumper; from 1 to 2; insulated; gray

Item No.: 780-453

Staggered jumper; from 1 to 3; insulated; gray

Item No.: 780-454

Staggered jumper; from 1 to 4; insulated; gray

Item No.: 780-455

Staggered jumper; from 1 to 5; insulated;

Item No.: 780-456

Staggered jumper; from 1 to 6; insulated; grav

Item No.: 780-457

Staggered jumper; from 1 to 7; insulated; gray

Item No.: 780-458

Staggered jumper; from 1 to 8; insulated; gray

https://www.wago.com/280-633



1.2.6.1 Jumper

I R







Item No.: 284-414

Step-down jumper; from 284/282 to 281/280/279 series; insulated; gray



Wire commoning chain; 2.5 mm²; insulated; black

Item No.: 709-111

Wire commoning chain; 2.5 mm²; insulated; black

Item No.: 709-112

Wire commoning chain; 2.5 mm²; insulated; black

Item No.: 210-103

Wire commoning chain; insulated; black

Item No.: 210-123

Wire commoning chain; insulated; blue

1.2.7 Marking

1.2.7.1 Double marker carrier



Item No.: 209-128 Adaptor; gray

1.2.7.2 Group marker carrier









Item No.: 209-140

Group marker carrier; gray

Item No.: 209-141
Group marker carrier; gray

Item No.: 209-142
Group marker carrier; gray

<u>Item No.: 249-105</u>

Group marker carrier; gray

1.2.7.3 Marker







Item No.: 793-5501

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; white

Item No.: 793-501

WMB marking card; as card; not stretchable; plain; snap-on type; white

Item No.: 2009-115

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

1.2.8 Plug

1.2.8.1 Component module with diode





Item No.: 280-803/281-420

Component plug; 2-pole; with rectifier diode and LED; 10 mm wide; gray



Item No.: 280-803/281-421

Component plug; 2-pole; with rectifier diode and LED; 10 mm wide; gray

1.2.8.2 Component module with LED







Component plug; 2-pole; LED (red); 10 mm wide; gray



Item No.: 280-803/281-413

Component plug; 2-pole; LED (red); 24 VDC; 10 mm wide; gray



Item No.: 280-803/281-415

Item No.: 280-803/281-411

1N4007; 10 mm wide; gray

Component plug; 2-pole; with diode

Component plug; 2-pole; LED (red); 10 mm wide; gray



Item No.: 280-803/281-421

Component plug; 2-pole; with rectifier diode and LED; 10 mm wide; gray

Item No.: 280-803/281-414

Component plug; 2-pole; LED (red); 48 VDC; 10 mm wide; gray

Item No.: 280-803/281-420

Component plug; 2-pole; with rectifier diode and LED; 10 mm wide; gray

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https://www.wago.com/280-633



1.2.8.3 Empty component plug housing



Item No.: 280-803

Empty component plug housing; 10 mm wide; Type 4; 2-pole; gray

1.2.8.4 Neon indicator module



Item No.: 280-803/281-417

Component plug; 2-pole; 10 mm wide; gray

Item No.: 280-803/281-418

Component plug; 2-pole; 10 mm wide; grav

1.2.9 Protective warning marker

1.2.9.1 Cover



Item No.: 280-415

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.2.10 Push-in type wire jumper

1.2.10.1 Jumper



Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; black

Item No.: 249-123

Push-in type wire jumper; 0.75 mm²; insulated; 180 mm long; black

Item No.: 249-127

Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; black

Item No.: 249-125

Push-in type wire jumper; insulated; 60 mm long; black

1.2.11 Test and measurement

1.2.11.1 Testing accessories



Item No.: 249-107

B-type spacer module; modular; e.g., for bridging commoned terminal blocks; gray

Item No.: 249-106

B-type test plug module; modular; 1,50 mm²; gray

Item No.: 249-147

B-type test plug module; modular; 2,50 mm²; gray

Item No.: 249-142

L-type end module; modular; with rigid contact pin; End module; 1,50 mm²; gray

Item No.: 249-143

L-type spacer module; modular; e.g., bridging commoned terminal blocks; gray

Item No.: 249-141

L-type test plug module; modular; with spring-loaded contact pin; Center module; 1,50 mm²; gray Item No.: 280-419

Spacer module; modular; bridging commoned terminal blocks; gray

Item No.: 280-404

Test plug adapter; 5 mm wide; for test plug (2.3 mm Ø); suitable for 1.5 mm² - 4 mm² tbs; gray

Item No.: 209-170

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plugs; suitable for 1.5 mm² - 10 mm² tbs; gray

Item No.: 280-418

Test plug module; modular; suitable for all WAGO 280 and 780 Series rail-mounted terminal blocks with jumper slots in the current bar; gray

Item No.: 281-407

Test plug; 6 mm wide; Nominal current 24 A; for 0.08 mm² - 2.5 mm²; gray



1.2.12 Tool

1.2.12.1 Operating tool

Item No.: 210-658

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured

Item No.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Item No.: 210-657

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

Installation Notes

Installation



Snapping a terminal block onto the DIN-rail.



Quick assembly keys prevent reverse mounting.



Removing a terminal block from the assembly.



Steel DIN-rails are not suited for PEN (ground and N-conductor) applications per EN 60947-7-2 (VDE 0611, Part 3).

Conductor termination



CAGE CLAMP® connection Inserting a conductor.



CAGE CLAMP® connection Inserting a conductor. With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross-section.



Inserting insulation stops.



CAGE CLAMP® connection Removing a solid conductor.

MAGO

Commoning



Commoning using an adjacent jumper. Push jumper down until fully inserted!



Staggered jumpers are suitable for sophisticated circuit requirements. Push jumpers down until fully inserted!



Push-In Type Wire Jumpers

When installing machines or control systems, it is often necessary to make an additional connection between two terminal blocks that are not next to each other on the rail. In such cases, WAGO's touchproof, push-in type wire jumpers are the ideal solution.

These jumpers are compatible with the following rail-mount terminal blocks:

- 279 Series (1.5 mm²/16 AWG),
- 280/775/780 Series (2.5 mm²/14 AWG) - 281/769/776/777/781 and 880 Series (4 mm²/12 AWG)

They are available in three conductor lengths (60, 110 and 250 mm), allowing up to 60 terminal blocks to be commoned depending on their width (see table on the right).

The 280/775/780 and 281/776/777/781 Series Terminal Blocks accept two wire jumpers, allowing the use of commoning chains. Furthermore, the 280/769/775/780/880 and 281/776/777/781 Series allow both wire jumper and adjacent jumper to be simultaneously plugged into a same terminal



Commoning using comb-style jumper bars:

Push comb-style jumper bars down until fully inserted.



Commoning terminal blocks of different sizes via step-down jumpers.

Testing



Testing with a test plug.
Picture shows a test plug fitted with CAGE



L-type test plug modules fitted with CA-GE CLAMP®



B-type test plug modules fitted with CA-GE CLAMP®



Testing with a test plug. Picture shows a test plug adapter (209-170).



Test plugs modules are directly plugged into the jumper contact slot of the current bar.

https://www.wago.com/280-633



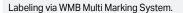
Cover



Protective warning markers inserted into the operating slots

Marking







Terminal block marking with double marker carriers (209-128) Terminal blocks with side marking

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at:: $\underline{www.wago.com}$

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