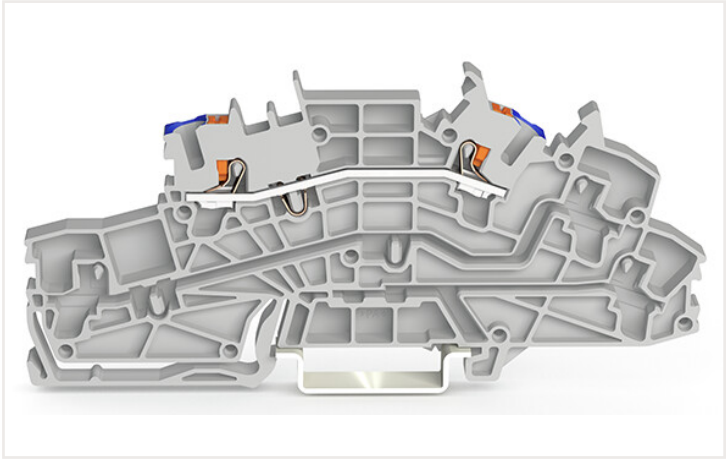
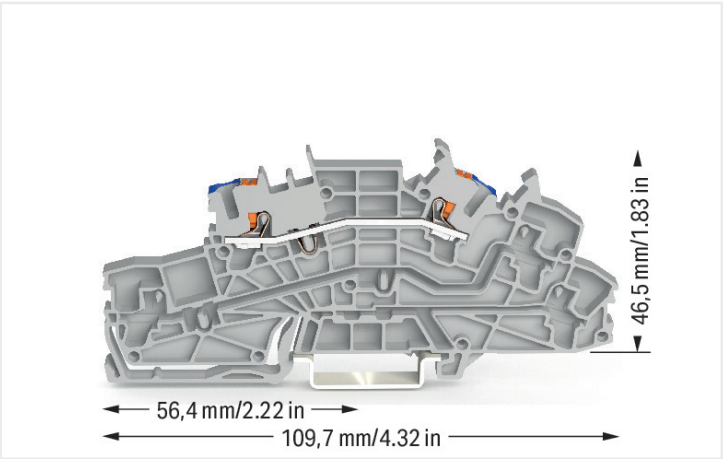




Electrical data

Ratings per IEC/EN	
Nominal voltage (III/3)	400 V
Rated impulse voltage (III/3)	6 kV
Rated current	24 A
Rated current 2	31 A
Legend (ratings)	(III / 3) Δ Overvoltage category III / Pollution degree 3

Power loss	
Power loss, per pole (potential)	0.7661 W
Rated current I _N for specified power loss	24 A
Resistance value for specified, current-dependent power loss	0.00133 Ω

Connection data

Total number of connection points	2
Number of levels	3

Connection 1	
Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-in Push-button
Connectable conductor materials	Copper
Nominal cross-section	2.5 mm²
Solid conductor	0.25 ... 4 mm² / 22 ... 12 AWG
Solid conductor; push-in termination	0.75 ... 4 mm² / 18 ... 12 AWG
Fine-stranded conductor	0.25 ... 4 mm² / 22 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 2.5 mm² / 22 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1 ... 2.5 mm² / 18 ... 14 AWG
Note (conductor cross-section)	Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.
Strip length	10 ... 12 mm / 0.39 ... 0.47 inches
Wiring direction	Front-entry wiring



Physical data	
Width	5.2 mm / 0.205 inches
Height	109.7 mm / 4.319 inches
Depth from upper-edge of DIN-rail	46.5 mm / 1.831 inches

Mechanical data	
Potential marking	N
Mounting type	DIN-35 rail
Marking level	Center/side marking

Material data	
Note (material data)	Information on material data can be found here
Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.304 MJ
Weight	12.8 g

Commercial data	
PU (SPU)	50 Pieces
Packaging type	Box
Country of origin VKOrg Germany	DE
GTIN	4066966165517
Customs tariff number VKOrg Germany	85369010000

Approvals and certificates

Country specific Approvals			UL-Approvals		
Approval	Standard	Certificate name	Approval	Standard	Certificate name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7923	UR Underwriters Laboratories Inc.	UL 1059	E 45172
CSA DEKRA Certification B.V.	C22.2	80093552			
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-122696			



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2203-6651

↓

Documentation

Additional Information

Technical Section

pdf 2142.18 KB

↓

1 Compatible products

1.1 Required accessories

1.1.1 End plate

1.1.1.1 End plate



[Item no.: 2203-6692](#)
End and intermediate plate; 0.8 mm thick; orange

1.2 Optional accessories

1.2.1 DIN-rail

1.2.1.1 Mounting accessories



[Item no.: 210-196](#)
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.: 210-197](#)
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored



[Item no.: 210-114](#)
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



[Item no.: 210-112](#)
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.: 210-113](#)
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

1.2.2 Ferrule

1.2.2.1 Ferrule



[Item no.: 216-241](#)
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white



[Item no.: 216-242](#)
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



[Item no.: 216-262](#)
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



[Item no.: 216-243](#)
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

1.2.2.1 Ferrule

**Item no.: 216-263**

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

**Item no.: 216-244**

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

**Item no.: 216-264**

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

**Item no.: 216-246**

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

**Item no.: 216-266**

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

1.2.3 Installation

1.2.3.1 Mounting accessories

**Item no.: 2009-304**

Busbar carrier; not suitable for use as end stop; for DIN 35 rail; 1.5 mm thick; blue

**Item no.: 2009-305**

Busbar carrier; with end stop function and detachable separator plate; for DIN 35 rail; 7.5 mm thick; blue

**Item no.: 709-169**

Cover carrier; Type 3; gray

**Item no.: 709-156**

Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

1.2.4 Insulation stop

1.2.4.1 Insulation stop

**Item no.: 2002-171**

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

**Item no.: 2002-172**

Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray

1.2.5 Jumper

1.2.5.1 Jumper

**Item no.: 2002-400**

Continuous jumper; 2-way; insulated; light gray

**Item no.: 2002-423/000-006**

Continuous jumper; from 1 to 3; insulated; blue

**Item no.: 2002-423**

Continuous jumper; from 1 to 3; insulated; light gray

**Item no.: 2002-423/000-005**

Continuous jumper; from 1 to 3; insulated; red

**Item no.: 2002-406/020-000**

Delta jumper; insulated; light gray

**Item no.: 2002-410/000-006**

Jumper; 10-way; insulated; blue

**Item no.: 2002-410**

Jumper; 10-way; insulated; light gray

**Item no.: 2002-410/000-005**

Jumper; 10-way; insulated; red

**Item no.: 2002-402/000-006**

Jumper; 2-way; insulated; blue

**Item no.: 2002-402**

Jumper; 2-way; insulated; light gray

**Item no.: 2002-402/000-005**

Jumper; 2-way; insulated; red

**Item no.: 2002-403/000-006**

Jumper; 3-way; insulated; blue

**Item no.: 2002-403**

Jumper; 3-way; insulated; light gray

**Item no.: 2002-403/000-005**

Jumper; 3-way; insulated; red

**Item no.: 2002-404/000-006**

Jumper; 4-way; insulated; blue

**Item no.: 2002-404**

Jumper; 4-way; insulated; light gray

**Item no.: 2002-404/000-005**

Jumper; 4-way; insulated; red

**Item no.: 2002-405/000-006**

Jumper; 5-way; insulated; blue

**Item no.: 2002-405**

Jumper; 5-way; insulated; light gray

**Item no.: 2002-405/000-005**

Jumper; 5-way; insulated; red



1.2.5.1 Jumper

 <u>Item no.: 2002-406/000-006</u> Jumper; 6-way; insulated; blue	 <u>Item no.: 2002-406</u> Jumper; 6-way; insulated; light gray	 <u>Item no.: 2002-406/000-005</u> Jumper; 6-way; insulated; red	 <u>Item no.: 2002-407/000-006</u> Jumper; 7-way; insulated; blue
 <u>Item no.: 2002-407</u> Jumper; 7-way; insulated; light gray	 <u>Item no.: 2002-407/000-005</u> Jumper; 7-way; insulated; red	 <u>Item no.: 2002-408/000-006</u> Jumper; 8-way; insulated; blue	 <u>Item no.: 2002-408</u> Jumper; 8-way; insulated; light gray
 <u>Item no.: 2002-408/000-005</u> Jumper; 8-way; insulated; red	 <u>Item no.: 2002-409/000-006</u> Jumper; 9-way; insulated; blue	 <u>Item no.: 2002-409</u> Jumper; 9-way; insulated; light gray	 <u>Item no.: 2002-409/000-005</u> Jumper; 9-way; insulated; red
 <u>Item no.: 2002-440</u> Jumper; from 1 to 10; insulated; light gray	 <u>Item no.: 2002-433</u> Jumper; from 1 to 3; insulated; light gray	 <u>Item no.: 2002-434</u> Jumper; from 1 to 4; insulated; light gray	 <u>Item no.: 2002-435</u> Jumper; from 1 to 5; insulated; light gray
 <u>Item no.: 2002-436</u> Jumper; from 1 to 6; insulated; light gray	 <u>Item no.: 2002-437</u> Jumper; from 1 to 7; insulated; light gray	 <u>Item no.: 2002-438</u> Jumper; from 1 to 8; insulated; light gray	 <u>Item no.: 2002-439</u> Jumper; from 1 to 9; insulated; light gray
 <u>Item no.: 2002-480</u> Staggered jumper; 10-way; insulated; light gray	 <u>Item no.: 2002-481</u> Staggered jumper; 11-way; insulated; light gray	 <u>Item no.: 2002-482</u> Staggered jumper; 12-way; insulated; light gray	 <u>Item no.: 2002-473/011-000</u> Staggered jumper; 2-way; from 1 to 3; insulated; light gray
 <u>Item no.: 2002-472</u> Staggered jumper; 2-way; insulated; light gray	 <u>Item no.: 2002-473</u> Staggered jumper; 3-way; insulated; light gray	 <u>Item no.: 2002-475/011-000</u> Staggered jumper; 3-way; insulated; light gray	 <u>Item no.: 2002-474</u> Staggered jumper; 4-way; insulated; light gray
 <u>Item no.: 2002-475</u> Staggered jumper; 5-way; insulated; light gray	 <u>Item no.: 2002-476</u> Staggered jumper; 6-way; insulated; light gray	 <u>Item no.: 2002-477</u> Staggered jumper; 7-way; insulated; light gray	 <u>Item no.: 2002-478</u> Staggered jumper; 8-way; insulated; light gray
 <u>Item no.: 2002-479</u> Staggered jumper; 9-way; insulated; light gray	 <u>Item no.: 2002-477/011-000</u> Staggered jumper; insulated; light gray	 <u>Item no.: 2002-479/011-000</u> Staggered jumper; insulated; light gray	 <u>Item no.: 2002-481/011-000</u> Staggered jumper; insulated; light gray
 <u>Item no.: 2002-405/011-000</u> Star point jumper; 3-way; insulated; light gray	 <u>Item no.: 210-103</u> Wire commoning chain; insulated; black	 <u>Item no.: 210-123</u> Wire commoning chain; insulated; blue	

1.2.6 Marking

1.2.6.1 Group marker carrier

 <u>Item no.: 2009-191</u> Group marker carrier; gray	 <u>Item no.: 2009-192</u> Group marker carrier; gray	 <u>Item no.: 2009-193</u> Group marker carrier; gray
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1.2.6.2 Marker

Item no.: 2009-145/000-006

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item no.: 2009-145/000-007

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

Item no.: 2009-145/000-023

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item no.: 2009-145/000-012

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

Item no.: 2009-145/000-005

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

Item no.: 2009-145/000-024

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Item no.: 2009-145

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item no.: 2009-145/000-002

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

**Item no.: 248-501/000-006**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue

Item no.: 248-501/000-007

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray

Item no.: 248-501/000-023

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

Item no.: 248-501/000-017

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green

**Item no.: 248-501/000-012**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange

Item no.: 248-501/000-005

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red

Item no.: 248-501/000-024

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

Item no.: 248-501

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

**Item no.: 248-501/000-002**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

Item no.: 793-5501/000-006

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

Item no.: 793-5501/000-014

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

Item no.: 793-5501/000-007

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

**Item no.: 793-5501/000-023**

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

Item no.: 793-5501/000-017

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

Item no.: 793-5501/000-012

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

Item no.: 793-5501/000-005

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

**Item no.: 793-5501/000-024**

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

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.: 793-5501/000-002

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

Item no.: 793-501/000-006

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

**Item no.: 793-501/000-007**

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

Item no.: 793-501/000-023

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

Item no.: 793-501/000-017

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

Item no.: 793-501/000-012

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

**Item no.: 793-501/000-005**

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

Item no.: 793-501/000-024

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

Item no.: 793-501

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

Item no.: 793-501/000-002

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

**Item no.: 2009-115/000-006**

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

Item no.: 2009-115/000-007

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

Item no.: 2009-115/000-023

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

Item no.: 2009-115/000-017

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

**Item no.: 2009-115/000-012**

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

Item no.: 2009-115/000-005

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

Item no.: 2009-115/000-024

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

Item no.: 2009-115

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

**Item no.: 2009-115/000-002**

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

1.2.6.3 Marker carrier



Item no.: 2009-198

Adaptor; gray

1.2.6.4 Marking strip



Item no.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.2.7 Push-in type wire jumper

1.2.7.1 Jumper



Item no.: 2009-414

Push-in type wire jumper; 1.5 mm²; insulated; 110 mm long; black



Item no.: 2009-414/000-005

Push-in type wire jumper; 1.5 mm²; insulated; 110 mm long; black



Item no.: 2009-416

Push-in type wire jumper; 1.5 mm²; insulated; 250 mm long; black



Item no.: 2009-414/000-006

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



Item no.: 2009-412

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

1.2.8 Test and measurement

1.2.8.1 Testing accessories



Item no.: 2009-174

Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray



Item no.: 210-136

Test plug; 2 mm Ø; with 500 mm cable; red



Item no.: 2009-182

Testing tap; for max. 2.5 mm²; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

1.2.9 Tool

1.2.9.1 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.: 2009-309

Operating tool; Blades: 3.5 x 0.5 mm and 2.5 x 0.4 mm; for TOPJOB®S installation terminal blocks



Item no.: 2009-310

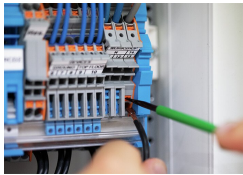
Operating tool; Blades: 3.5 x 0.5 mm and 5.5 x 0.8 mm; for TOPJOB®S installation terminal blocks; green

Installation notes

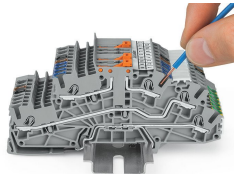
Conductor termination



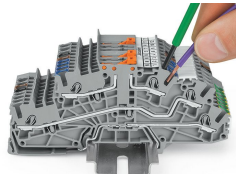
All conductor types at a glance



Conductor termination

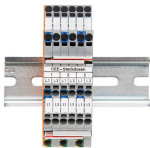


Inserting a conductor via push-in termination. Solid conductors with cross-sections from either one size above, or up to two sizes below, the rated cross-section can be simply pushed in – no tools needed.

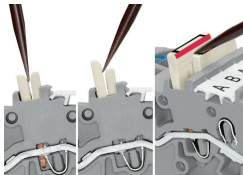


Inserting a conductor via operating tool. Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.

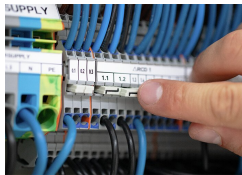
Commoning



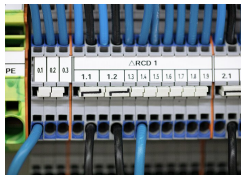
Commoning two potentials in one single jumper slot via extremely slim staggered jumpers.



Removing a staggered jumper: Insert the operating tool between the staggered jumpers, then lift up the jumper.



The 1-to-3 adjacent jumper for continuous commoning enables every other terminal block to be commoned. For example, positive and negative potentials can be accommodated alongside each other.



Adjacent Jumpers for Continuous Commoning (2002-400)

Testing



Testing