# Data sheet | Item number: 280-576

3-conductor actuator supply terminal block; with ground contact; with
colored conductor entries; 2.5 mm²; CAGE CLAMP®; 2,50 mm²; gray

www.wago.com/280-576

Color:

63,5 mm/2.5 in

90,5 mm/3.56 in

Data
Electrical data

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

Ratings per IEC/EN

Nominal voltage (III/3)	400 V
Rated impulse voltage (III/3)	6 kV
Rated current	10 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Power loss

Power loss, per pole (potential)	0.133 W
Rated current I_N for specified power loss	10 A
Resistance value for specified, current-dependent power loss	0.001 Ω

Connection data

Connection points	4
Total number of potentials	4
Number of levels	4

Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper Aluminum
Connectable conductor materials (note)	**Terminating Aluminum Conductors** WAGO spring clamp terminal blocks are suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO "Alu-Plus" Contact Paste 249-130 is used for termination. "Alu-Plus" Contact Paste Advantages: ■ Automatically destroys the oxide film during clamping. ■ Prevents fresh oxidation at the clamping point. ■ Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block). ■ Provides long-term protection against corrosion.

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

Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, **aluminum conductors must first be cleaned with a blade** and then immediately be inserted into the clamping units filled with "Alu-Plus" Contact Paste.

It is also possible to apply WAGO "Alu-Plus" **additionally** on the whole surface of the aluminum conductor before termination.

Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors::
2.5 mm² = 16 A
4 mm² = 22 A

Solid conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Note (conductor cross-section)	12 AWG: THHN, THWN
Strip length	8 … 9 mm / 0.31 … 0.35 inches
Wiring direction	Front-entry wiring

Physical data

Width	5 mm / 0.197 inches
Height	90.5 mm / 3.563 inches
Depth from upper-edge of DIN-rail	63.5 mm / 2.5 inches

Mechanical Data

Design	angled
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	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.36 MJ
Weight	18 g

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

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Environmental requirements

Processing temperature	-35 … +85 °C
Continuous operating temperature	-60 … +105 °C

Commercial data

Product Group	1 (Rail Mounted Terminal Blocks)
eCl@ss 10.0	27-14-11-28
eCl@ss 9.0	27-14-11-28
ETIM 8.0	EC000900
ETIM 7.0	EC000900
PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454093792
Customs tariff number	85369010000

Environmental Product Compliance

CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	19df0d1a-8ec8-4fb8-a40b-8e011d57e673
SCIP notification number (Belgium)	b9034543-3904-427e-ae3d-9c2c0a5746d0
SCIP notification number (Bulgaria)	42b4ddde-77cb-4718-832b-6f3da270301b
SCIP notification number (Czech Republic)	b87f8149-decc-48b4-9be5-a42515c4eb97
SCIP notification number (Denmark)	ef576706-599b-4ea0-a23b-c623600fa40a
SCIP notification number (Finland)	02a3a138-2a7d-44c1-820d-e8ead850f422
SCIP notification number (France)	f0ed5714-c07f-4cfa-b5bf-c06e26a7f61e
SCIP notification number (Germany)	3211c493-fc66-401c-a0ce-bd4064b764c3
SCIP notification number (Hungary)	4979e46c-7b3d-4dca-a635-271e976b7caa
SCIP notification number (Italy)	778d7764-06be-4fab-9942-274697f02281
SCIP notification number (Netherlands)	864c6020-8e37-48b5-9800-ffb11caa961f
SCIP notification number (Poland)	06986f8d-94d6-4c3d-99fe-fdef89732711
SCIP notification number (Romania)	c4d93120-f727-45ad-ad62-c9a9f06e3ede

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W\\GO

SCIP notification number (Sweden)   fd6b62b1-3d49-406f-8188-b62719840f4e

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
KEMA EUR	**CCA** DEKRA Certification B.V.	EN 60947	2160584.53
CSA	**CSA** DEKRA Certification B.V.	C22.2	1536071
RU	**UR** Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
CE	**EU-Declaration of Conformity** WAGO GmbH & Co. KG	-	-
UK CA	**UK-Declaration of Conformity** WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
ABS	**ABS** American Bureau of Shipping	EN 60947	20-HG1941090-PDA
DNV	**DNV GL** Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2

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

Required accessories

End plate

End plate

	Item no.: 280-320 End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks; gray	www.wago.com/280-320
	Item no.: 280-323 End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks; orange	www.wago.com/280-323
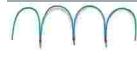
Optional accessories

Jumpers

Jumper

	Item no.: 210-123 Wire commoning chain; insulated; blue	www.wago.com/210-123
	Item no.: 280-402 Jumper; insulated; gray	www.wago.com/280-402
	Item no.: 210-103 Wire commoning chain; insulated; black	www.wago.com/210-103
	Item no.: 280-492 Jumper; 2-way; insulated; gray	www.wago.com/280-492
	Item no.: 280-482 Jumper; 2-way; insulated; gray	www.wago.com/280-482
	Item no.: 280-484 Jumper; 4-way; insulated; gray	www.wago.com/280-484
	Item no.: 280-490 Jumper; 10-way; insulated; gray	www.wago.com/280-490
	Item no.: 280-485 Jumper; 5-way; insulated; gray	www.wago.com/280-485
	Item no.: 280-483 Jumper; 3-way; insulated; gray	www.wago.com/280-483
	Item no.: 709-110 Wire commoning chain; 2.5 mm²; insulated; black	www.wago.com/709-110
	Item no.: 709-112 Wire commoning chain; 2.5 mm²; insulated; black	www.wago.com/709-112
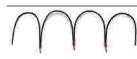
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	Item no.: 709-111	
	Wire commoning chain; 2.5 mm²; insulated; black	www.wago.com/709-111

	Item no.: 780-454	
	Staggered jumper; from 1 to 4; insulated; gray	www.wago.com/780-454

	Item no.: 780-452	
	Staggered jumper; from 1 to 2; insulated; gray	www.wago.com/780-452

	Item no.: 780-453	
	Staggered jumper; from 1 to 3; insulated; gray	www.wago.com/780-453

	Item no.: 780-457	
	Staggered jumper; from 1 to 7; insulated; gray	www.wago.com/780-457

	Item no.: 780-456	
	Staggered jumper; from 1 to 6; insulated; gray	www.wago.com/780-456
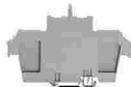
	Item no.: 780-455	
	Staggered jumper; from 1 to 5; insulated; gray	www.wago.com/780-455

	Item no.: 780-458	
	Staggered jumper; from 1 to 8; insulated; gray	www.wago.com/780-458

Mounting

Cover carrier

|	Item no.: 709-168	
	Cover carrier; Type 2; incl. fixing/retaining screws and knurled nut; suitable for 283 to 285 Series rail-mounted terminal blocks; suitable for 279 to 281 Series double- and triple-deck terminal blocks; suitable for 780 to 785, 775, 776 and 777 Series TOPJOB® rail-mounted terminal blocks; suitable for 280 Series sensor and actuator terminal blocks; suitable for 282 Series disconnect/test terminal blocks for transformer circuits; gray	www.wago.com/709-168

Cover

	Item no.: 709-154	
	Cover; Type 2; suitable for cover carrier, type 2; 1 m long; transparent	www.wago.com/709-154

Mounting accessories

	Item no.: 249-116	
	Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray	www.wago.com/249-116

Protective warning marker

Cover

	Item no.: 280-415	
	Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow	www.wago.com/280-415

Ferrule

Ferrule

	Item no.: 216-101
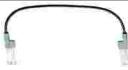
Subject to changes. Please also observe the further product documentation!

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	Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-101
	Item no.: 216-104 Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-104
	Item no.: 216-102 Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-102
	Item no.: 216-103 Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated	www.wago.com/216-103
	Item no.: 216-203 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-203
	Item no.: 216-202 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-202
	Item no.: 216-204 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black	www.wago.com/216-204
	Item no.: 216-201 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-201
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-301
	Item no.: 216-302 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise	www.wago.com/216-302

Insulation stop

Insulation stop

	Item no.: 280-472 Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; black	www.wago.com/280-472
	Item no.: 280-470 Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "f-st"); 5 pieces/strip; white	www.wago.com/280-470
	Item no.: 280-471 Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray	www.wago.com/280-471

Push-in type wire jumper

Jumper

	Item no.: 249-123 Push-in type wire jumper; 0.75 mm²; insulated; 180 mm long; black	www.wago.com/249-123
	Item no.: 249-126 Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; black	www.wago.com/249-126
	Item no.: 249-127 Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; black	www.wago.com/249-127

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

| | Item no.: 249-125 | www.wago.com/249-125 |
| | Push-in type wire jumper; insulated; 60 mm long; black | |

Lock-out

Locking system

| | Item no.: 709-170 | www.wago.com/709-170 |
| | Disconnect lock; for disconnect tab used on 280/281 and 769 Series disconnect terminal blocks; red | |

Testing and measuring

Testing accessories

| | Item no.: 209-170 | www.wago.com/209-170 |
| | Test plug adapter; 8.3 mm wide; for 4 mm Ø test plugs; suitable for 1.5 mm² - 10 mm² tbs; gray | |

Tool

Operating tool

| | Item no.: 210-657 | www.wago.com/210-657 |
| | Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured | |

| | Item no.: 210-658 | www.wago.com/210-658 |
| | Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured | |

| | Item no.: 210-720 | www.wago.com/210-720 |
| | Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured | |

Marking accessories

Marker

| | Item no.: 2009-115/000-002 | www.wago.com/2009-115 /000-002 |
| | WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow | |

| | Item no.: 2009-115/000-007 | www.wago.com/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.: 2009-115/000-017 | www.wago.com/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.: 2009-115/000-023 | www.wago.com/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.: 2009-115/000-024 | www.wago.com/2009-115 /000-024 |
| | WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet | |
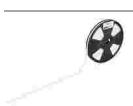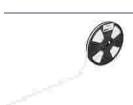
Subject to changes. Please also observe the further product documentation!

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Item no.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

www.wago.com/2009-115

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
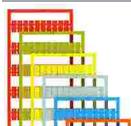
www.wago.com/793-5501/000-007

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
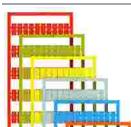
www.wago.com/793-5501/000-012

Item no.: 793-5501/000-017
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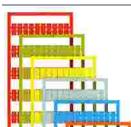
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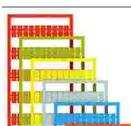
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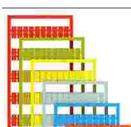
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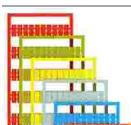
www.wago.com/793-501/000-002

Item no.: 793-501/000-007
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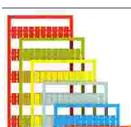
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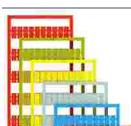
www.wago.com/793-501/000-017

Item no.: 793-501/000-012
WMB marking card; as card; not stretchable; plain; snap-on type; orange

www.wago.com/793-501/000-012

Item no.: 793-501/000-023
WMB marking card; as card; not stretchable; plain; snap-on type; green

www.wago.com/793-501/000-023

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	Item no.: 793-501/000-006	www.wago.com/793-501
	WMB marking card; as card; not stretchable; plain; snap-on type; blue	/000-006
	Item no.: 793-501/000-005	www.wago.com/793-501
	WMB marking card; as card; not stretchable; plain; snap-on type; red	/000-005
	Item no.: 793-501	www.wago.com/793-501
	WMB marking card; as card; not stretchable; plain; snap-on type; white	
	Item no.: 793-501/000-024	www.wago.com/793-501
	WMB marking card; as card; not stretchable; plain; snap-on type; violet	/000-024
	Item no.: 793-5501/000-005	www.wago.com/793-5501
	WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red	/000-005
	Item no.: 793-5501/000-002	www.wago.com/793-5501
	WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow	/000-002
	Item no.: 793-5501/000-006	www.wago.com/793-5501
	WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue	/000-006
	Item no.: 793-5501	www.wago.com/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.: 2009-115/000-012	www.wago.com/2009-115
	WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange	/000-012
	Item no.: 2009-115/000-006	www.wago.com/2009-115
	WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue	/000-006

Carrier rail

Mounting accessories

	Item no.: 210-197	www.wago.com/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.: 210-198

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

	Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored	www.wago.com/210-198
	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	www.wago.com/210-504
	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	www.wago.com/210-505
	Item no.: 210-506 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored	www.wago.com/210-506
	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	www.wago.com/210-508
	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	www.wago.com/210-113
	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	www.wago.com/210-118
	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	www.wago.com/210-112
	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	www.wago.com/210-114
	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	www.wago.com/210-115
	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	www.wago.com/210-196

Downloads
Documentation

Bid Text

280-576 X81 - Datei	2019 Feb 19	xml 3.4 kB	Download
280-576 doc - Datei	2017 Apr 3	doc 26.1 kB	Download

Additional Information

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Technical Section

Technical explanations

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CAD/CAE-Data

CAE data

EPLAN Data Portal 280-576	URL	Download
WSCAD Universe 280-576	URL	Download

Environmental Product Compliance

Compliance Search
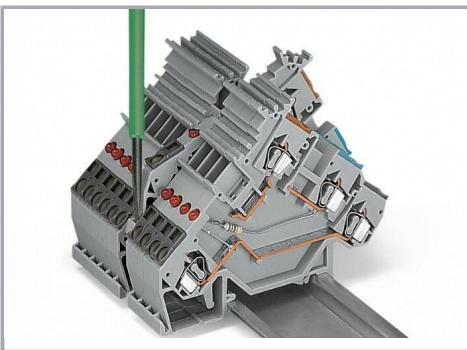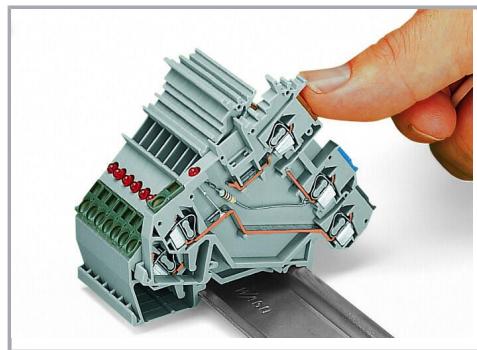
Environmental Product Compliance 280-576	URL	Download

3-conductor actuator supply terminal block; with ground contact; with colored
conductor entries; 2.5 mm²; CAGE CLAMP®; 2,50 mm²; gray

Installation Notes

Installation

Snapping a terminal block onto the DIN-rail.

Terminal blocks with a grounding foot
automatically establish a direct contact to the
rail.

Removing the terminal block from DIN-rail.
Notice: Remove jumper contacts first!

Conductor termination

Subject to changes. Please also observe the further product documentation!
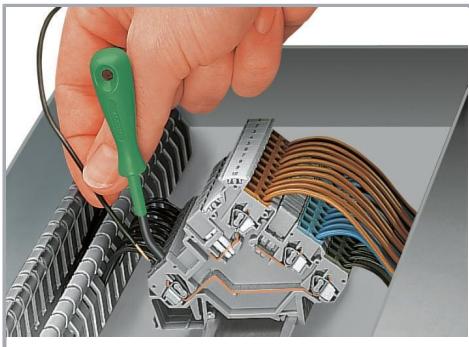
Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.

CAGE CLAMP® connection
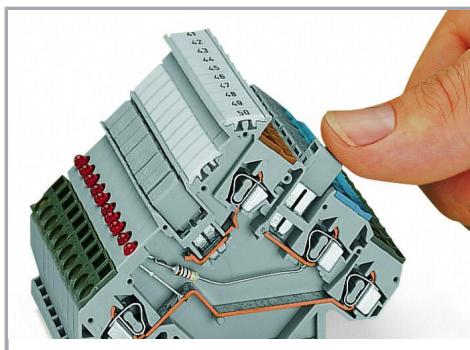
Inserting a conductor via straight operating tool (210-720).

CAGE CLAMP® connection

Inserting a conductor via angled operating tool (210-658).

Commoning

Commoning using an adjacent jumper (280-402).

Push jumper down until fully inserted.

Testing

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

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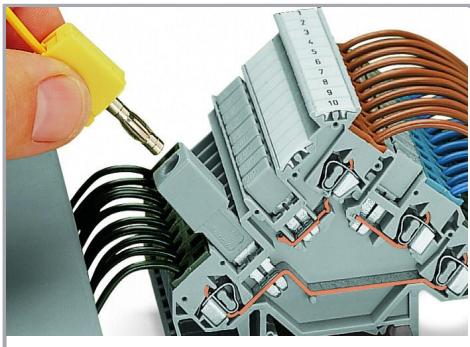
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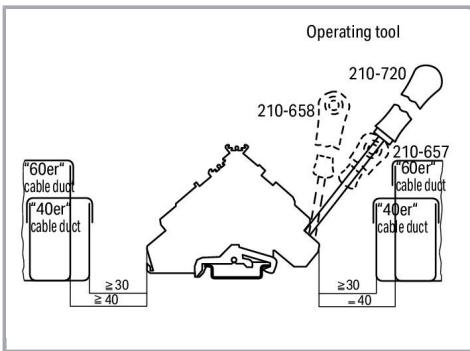
Testing via banana plug and test plug adapter (209-170).
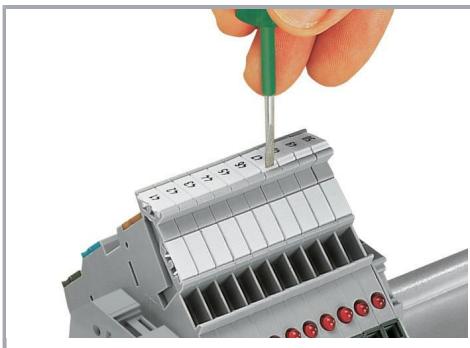
Testing via voltage tester directly on the current bar.

Installation

Min. mounting distance – terminal blocks to cable duct

Marking

Labeling via WMB Multi Marking System.

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

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