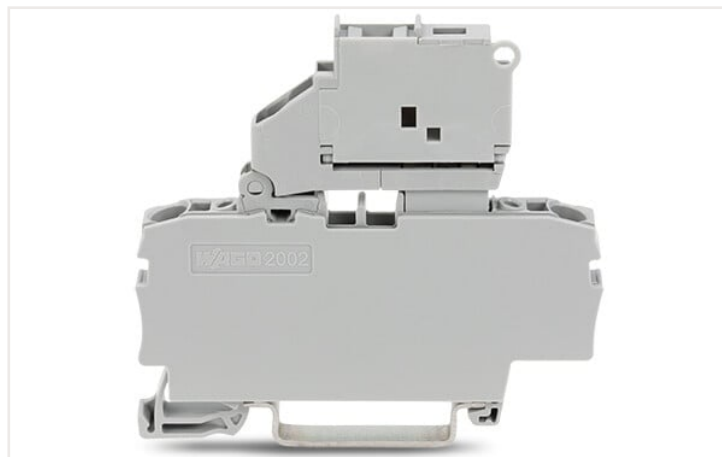
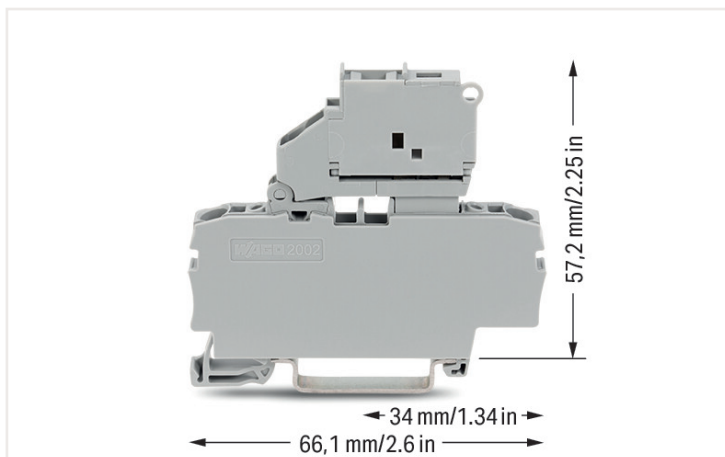


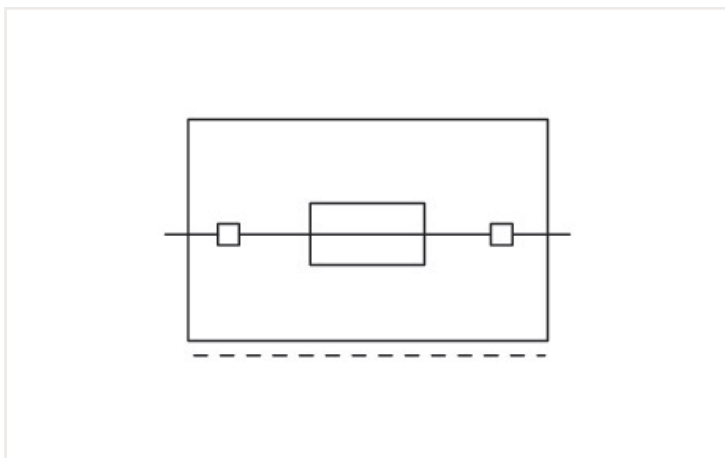
|: 2002-1611

2-conductor fuse terminal block; with pivoting fuse holder; and end plate; for 5 x 20 mm miniature metric fuse; without blown fuse indication; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; Push-in CAGE CLAMP®; 2,50 mm²; gray

<https://www.wago.com/2002-1611>



: ■ gray



Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60947-7-3
Ratings (note)	Electrical ratings are given by the fuse.
Nominal voltage (III/3)	250 V
Rated impulse voltage (III/3)	6 kV
Rated current	6.3 A
Operation status indicator	none
Legend (ratings)	(III / 3) ⚡ Overvoltage category III / Pollution degree 3

Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	250 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group C)	250 V
Rated current UL (Use Group C)	10 A
Rated voltage UL (Use Group D)	250 V
Rated current UL (Use Group D)	10 A

Ratings per CSA

Approvals per	CSA 22.2 No 158
Rated voltage CSA (Use Group B)	250 V
Rated current CSA (Use Group B)	6.3 A
Rated voltage CSA (Use Group C)	250 V
Rated current CSA (Use Group C)	6.3 A

Ex information

Reference hazardous areas	See Downloads – Documentation – Additional Information: Technical Section; Technical explanations
Ratings per	ATEX: KIWA 17 ATEX 0030 U / IECEx: KIWA 17.0014U (Ex ec IIC Gc)
Rated voltage EN (Ex e II)	275 V
Rated current (Ex e II)	6.3 A

Power loss

Power loss (max.) $P_{I(max)}$ (note)	When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal block must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on miniature fuses. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.
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Power loss P_I max. overload and short-circuit protection (individual arrangement)	1.6 W
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Power loss P_I max. overload and short-circuit protection (group arrangement)	1.6 W
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Power loss P_I max. short-circuit protection (individual arrangement)	1.6 W
---	-------

Power loss P_I max. short-circuit protection (group arrangement)	1.6 W
--	-------

General

Fuse receptacle	pivoting
Fuse type	Cylindrical fuse; 5 x 20 mm

Connection data

Total number of connection points	2
Total number of potentials	1
Number of levels	1
Number of jumper slots	2

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Nominal cross-section	2.5 mm ²
Solid conductor	0.25 ... 4 mm ² / 22 ... 12 AWG
Solid conductor; push-in termination	0.75 ... 4 mm ² / 18 ... 12 AWG
Fine-stranded conductor	0.25 ... 4 mm ² / 22 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 2.5 mm ² / 22 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1 ... 2.5 mm ² / 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	6.2 mm / 0.244 inches
Height	66.1 mm / 2.602 inches
Depth from upper-edge of DIN-rail	57.2 mm / 2.252 inches

Mechanical data

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	0.282 MJ
Weight	13.2 g

Environmental requirements

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

Commercial data

Product Group	22 (TOPJOB S)
eCl@ss 10.0	27-14-11-16
eCl@ss 9.0	27-14-11-16
ETIM 8.0	EC000899
ETIM 7.0	EC000899
PU (SPU)	50 Stück
Packaging type	Box
Country of origin VKOrg Germany	CN
GTIN	4045454974732
Customs tariff number VKOrg Germany	85369095000

Approvals and certificates

Ex-Approvals



AEx Underwriters Laboratories Inc.	UL 60079	E185892 (AEx eb IIC resp. Ex eb IIC)
ATEX KIWA Netherlands B.V.	EN 60079	KIWA 17ATEX0030 U
CCCEX CQST/CNEX	CNCA-C23-01	2020312313000180
IECEX KIWA Netherlands B.V.	EN 60079	IECEX KIWA 17.0014U (Ex ec IIC Gc)

Country specific Approvals



CCA DEKRA Certification B.V.	EN 60947	71-120369
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7892
CSA DEKRA Certification B.V.	C22.2 No. 158	1536069

Ship Approvals



ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2
LR Lloyds Register	EN 60947	91/20112 (E9)

UL-Approvals



UL Underwriters Laboratories Inc.	UL 1059	E45172
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Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 2002-1611	↓

Documentation

Additional Information		
Technical Section	pdf 2142.18 KB	↓

Bid Text			
2002-1611	29.04.2019	xml 4.13 KB	↓
2002-1611	23.04.2019	docx 15.37 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 2002-1611	↓

CAE data	
EPLAN Data Portal 2002-1611	↓
WSCAD Universe 2002-1611	↓
ZUKEN Portal 2002-1611	↓

1 Compatible products

1.1 Optional accessories

1.1.1 DIN-rail

1.1.1.1 Mounting accessories

:210-196 Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	:210-198 Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored	:210-508 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored	:210-197 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored
:210-506 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored	:210-114 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	:210-118 Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	: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
: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	:210-504 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored	:210-113 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	:210-505 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

1.1.2 End plate

1.1.2.1 End plate



:2002-991

End plate for fuse terminal blocks; 2 mm thick; gray



:2002-992

End plate for fuse terminal blocks; 2 mm thick; orange

1.1.3 Ferrule

1.1.3.1 Ferrule



: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



: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



: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



: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



: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



: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



: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



: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



: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

1.1.4 Installation

1.1.4.1 Mounting accessories



:709-169

Cover carrier; Type 3; gray



:709-156

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

1.1.5 Insulation stop

1.1.5.1 Insulation stop



:2002-171

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



:2002-172

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

1.1.6 Jumper

1.1.6.1 Jumper

 : 2004-406/020-000 Delta jumper; insulated; light gray	 : 2004-410 Jumper; 10-way; insulated; light gray	 : 2004-402 Jumper; 2-way; insulated; light gray	 : 2004-403 Jumper; 3-way; insulated; light gray
 : 2004-404 Jumper; 4-way; insulated; light gray	 : 2004-405 Jumper; 5-way; insulated; light gray	 : 2004-406 Jumper; 6-way; insulated; light gray	 : 2004-407 Jumper; 7-way; insulated; light gray
 : 2004-408 Jumper; 8-way; insulated; light gray	 : 2004-409 Jumper; 9-way; insulated; light gray	 : 2004-440 Jumper; from 1 to 10; insulated; light gray	 : 2004-433 Jumper; from 1 to 3; insulated; light gray
 : 2004-434 Jumper; from 1 to 4; insulated; light gray	 : 2004-435 Jumper; from 1 to 5; insulated; light gray	 : 2004-436 Jumper; from 1 to 6; insulated; light gray	 : 2004-437 Jumper; from 1 to 7; insulated; light gray
 : 2004-438 Jumper; from 1 to 8; insulated; light gray	 : 2004-439 Jumper; from 1 to 9; insulated; light gray	 : 2004-405/011-000 Star point jumper; 3-way; insulated; light gray	 : 210-103 Wire commoning chain; insulated; black
			
: 210-123 Wire commoning chain; insulated; blue			

















1.1.7 Locking system

1.1.7.1 Locking system

 : 210-254 Interlocking link; mechanically locks multiple links; 1 m long; transparent

1.1.8 Marking

1.1.8.1 Marker

 : 2009-145/000-006 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue	 : 2009-145/000-007 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray	 : 2009-145/000-023 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green	 : 2009-145/000-012 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange
 : 2009-145/000-005 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red	 : 2009-145/000-024 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet	 : 2009-145 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	 : 2009-145/000-002 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow
 : 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue	 : 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray	 : 248-501/000-023 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green	 : 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green
 : 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange	 : 248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red	 : 248-501/000-024 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet	 : 248-501 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

1.1.8.1 Marker



: 248-501/000-002
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow



: 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



: 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



: 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



: 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



: 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



: 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



: 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



: 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



: 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



: 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



: 793-501/000-006
WMB marking card; as card; not stretchable; plain; snap-on type; blue



: 793-501/000-007
WMB marking card; as card; not stretchable; plain; snap-on type; gray



: 793-501/000-023
WMB marking card; as card; not stretchable; plain; snap-on type; green



: 793-501/000-017
WMB marking card; as card; not stretchable; plain; snap-on type; light green



: 793-501/000-012
WMB marking card; as card; not stretchable; plain; snap-on type; orange



: 793-501/000-005
WMB marking card; as card; not stretchable; plain; snap-on type; red



: 793-501/000-024
WMB marking card; as card; not stretchable; plain; snap-on type; violet



: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white



: 793-501/000-002
WMB marking card; as card; not stretchable; plain; snap-on type; yellow



: 2009-115/000-006
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



: 2009-115/000-007
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



: 2009-115/000-023
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green



: 2009-115/000-017
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green



: 2009-115/000-012
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



: 2009-115/000-005
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red



: 2009-115/000-024
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet



: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



: 2009-115/000-002
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

1.1.8.2 Marking strip



: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.1.9 Protective warning marker

1.1.9.1 Cover



: 2002-115

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

1.1.10 Test and measurement

1.1.10.1 Testing accessories



: 210-136

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

1.1.11 Tool

1.1.11.1 Operating tool



: 210-658

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



: 210-720

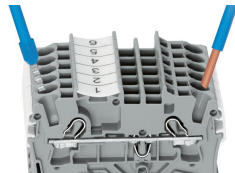
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation notes

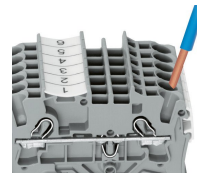
Conductor termination



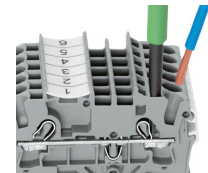
All conductor types at a glance



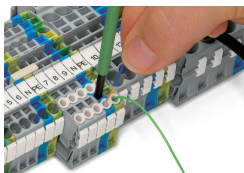
Push-in termination of solid and ferruled conductors



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.

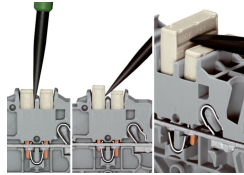
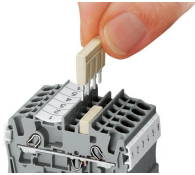


Inserting a conductor via operating tool:
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.
Advantage:
To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.



Conductor termination – insulation stop

Commoning

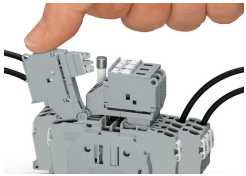


Insert push-in type jumper bar and push down until it hits backstop.

Removing a push-in type jumper bar:
 Insert the operating tool between the jumper and partition wall of the dual jumper slots, then lift up the jumper.
 Place the operating tool in the center of jumpers for up to five contacts (see above), or alternately on both sides for jumpers with more than five contacts.



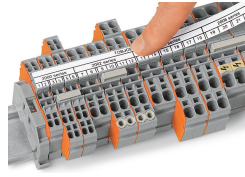
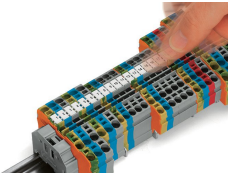
Fuse terminal blocks with a width of 6.2 mm/0.244 in can be assembled adjacently. If there is no adjacent fuse terminal block at the end of the assembly, an end plate must be used.



Fused Disconnect Terminal Block with a Pivoting Fuse Holder
 Pivot the fuse holder into the locked open position.

Fused disconnect terminal block with a pivoting fuse holder
 Fuse replacement

Marking



Snapping WMB Inline markers into marker slots.