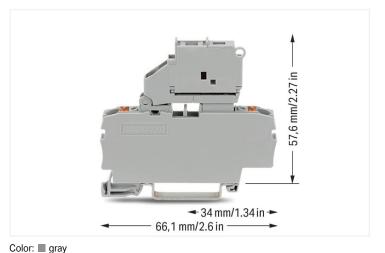
2-conductor fuse terminal block; with pivoting fuse holder; and end plate; for 5 x 20 mm miniature metric fuse; with push-button; without blown fuse indication; for DINrail 35 x 15 and 35 x 7.5; 2.5 mm²; Push-in CAGE CLAMP[®]; 2,50 mm²; gray

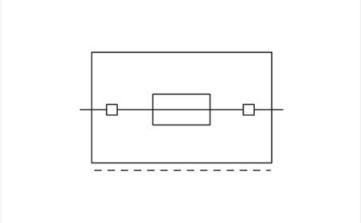


https://www.wago.com/2202-1611









Fuse terminal block, 2202 Series, Push-in CAGE CLAMP®

This fuse terminal block (item number 2202-1611) is designed for quick and easy connections. Strip lengths must be between 10 mm and 12 mm when connecting conductors to this fuse terminal block. This product features conductor terminals and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® technology provides a universal connection solution for all conductor types. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. Depending on the conductor type, this fuse terminal block is suitable for conductor cross sections ranging from 0.25 mm² to 4 mm². It has one level. The single potential can connect using the two clamping points The gray housing is made of polyamide (PA66) for insulation. These function terminal blocks are mounted using DIN-35 rails.. This product is designed for specific Ex applications (please refer to the product datasheet).

Electrical data				
Ratings per	IEC/	EN 60947-	7-3	
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Nominal voltage	250 V	-	-	
Rated surge voltage	6 kV	-	-	
Rated current	6.3 A	-	-	

Ratings per IEC/EN – Notes	
Ratings (note)	Electrical ratings are given by the fuse.

Data Sheet | Item Number: 2202-1611 https://www.wago.com/2202-1611



Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	250 V	250 V	250 V
Rated current	10 A	10 A	-

В	_	
Ь	С	D
250 V	250 V	250 V
10 A	10 A	10 A

Ex information	
Reference hazardous areas	See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications"
Ratings per	ATEX: PTB 20 ATEX 1007 U / IECEx: PTB 20.0013U (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.
Power loss P ₁ max. overload and short- circuit protection (individual arrange- ment)	1.6 W
Power loss P _I max. overload and short- circuit protection (group arrangement)	1.6 W
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 information	
Fuse receptacle	pivoting
Fuse type	Cylindrical fuse; 5 x 20 mm

Connection data		
Clamping units	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	Push-button
Connectable conductor materials	Copper
Nominal cross-section	2.5 mm ²
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

https://www.wago.com/2202-1611

Approvals / Certificates



Physical data Width 6.2 mm / 0.244 inches Height 66.1 mm / 2.602 inches Depth from upper-edge of DIN-rail 57.6 mm / 2.268 inches

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

Material data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
Color	gray
Material group	
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.158 MJ
Actuator color	orange
Weight	13.5 g

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

Commercial data	
ETIM 9.0	EC000899
ETIM 8.0	EC000899
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143907910
Customs tariff number	85369095000

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

General approvals			Declarations of confo	rmity and manufac	cturer's declaration
217 (13)			Approval	Standard	Certificate
			ATEX-Attestation of Con-	_	_
A I	0	0 110 1 11	ATEX ACCOUNTED OUT		

GI 11-22			Approvai	Standard	Certificate Name
Approval CSA	Standard C22.2	Certificate Name	ATEX-Attestation of Conformity WAGO GmbH & Co. KG	-	-
DEKRA Certification B.V. UL Underwriters Laboratories	UL 1059	UL-CA- L45172-6189178-11508102-1	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
Inc.			UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

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Approvals for hazardous areas









Approval	Standard	Certificate Name
AEx Underwriters Laboratories Inc.	UL 60079	E185892 (AEx eb IIC resp. Ex eb IIC)
ATEX Physikalisch Technische Bundesanstalt	EN IEC 60079-0	PTB 20 ATEX 1007U (II 3 G Ex ec IIC Gc)
CCC CNEX	-	2020312313000288 (Ex ec IIC Gc)
IECEx Physikalisch Technische Bundesanstalt	IEC 60079	IECEx PTB 20.0013U (Ex ec IIC Gc)

Downloads

thick; gray

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2202-1611



Documentation		
Additional Information		
Technical Section	pdf 2246.92 KB	$\overline{\downarrow}$

thick; orange

Bid Text			
2202-1611	20.05.2019	xml 4.21 KB	\perp
2202-1611	20.05.2019	docx 15.35 KB	$\overline{\downarrow}$

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 2202-1611	ZUKEN Portal 2202-1611

1.1 Required Accessories 1.1.1 End plate 1.1.1.1 End plate 1.1.1.1 End plate Item No.: 2002-991 End plate for fuse terminal blocks; 2 mm Item No.: 209-191 Separator for Ex e/Ex i applications; 3 mm

thick; 120 mm wide; orange

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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 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

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.: 210-504

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 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

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 Cover



Item No.: 709-156

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

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1.2.3.2 Cover carrier



Item No.: 709-169

Cover carrier; Type 3; 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 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.: 2004-406/020-000

Delta jumper; insulated; light gray



Jumper; 10-way; insulated; light gray

Item No.: 2004-402

Jumper; 2-way; insulated; light gray

TITL

Item No.: 2004-403

Jumper; 3-way; insulated; light gray

Item No.: 2004-404

Jumper; 4-way; insulated; light gray

Item No.: 2004-405

Item No.: 2004-409

Jumper; 5-way; insulated; light gray

Item No.: 2004-406

Jumper; 6-way; insulated; light gray

Item No.: 2004-407

Jumper; 7-way; insulated; light gray

Item No.: 2004-408

Jumper; 8-way; insulated; light gray

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Item No.: 2004-440

Jumper; from 1 to 10; insulated; light gray

Item No.: 2004-433

Jumper; from 1 to 3; insulated; light gray

Jumper; 9-way; insulated; light gray

Item No.: 2004-434

Jumper; from 1 to 4; insulated; light gray

Item No.: 2004-435

Jumper; from 1 to 5; insulated; light gray

Item No.: 2004-436

Jumper; from 1 to 6; insulated; light gray

Item No.: 2004-437

Jumper; from 1 to 7; insulated; light gray



Jumper; from 1 to 8; insulated; light gray

Item No.: 2004-439

Jumper; from 1 to 9; insulated; light gray

Item No.: 2004-405/011-000

Star point jumper; 3-way; insulated; light

Item No.: 210-103

Wire commoning chain; insulated; black



Item No.: 210-123

Item No.: 2004-438

Wire commoning chain; insulated; blue



1.2.6 Locking system

1.2.6.1 Locking system



Item No.: 210-254

Interlocking link; mechanically locks multiple links; 1 m long; transparent

1.2.7 Marking

1.2.7.1 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

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

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.: 793-5501/000-012 WMB marking card; as card; for terminal WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; orange 5.2 mm; plain; snap-on type; light green



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 -



Item No.: 793-5501/000-002

WMB marking card; as card; for terminal



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



5.2 mm; plain; snap-on type; violet



WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; yellow



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



WMB-Inline; for Smart Printer; 1500 pie-

ces on roll; stretchable 5 - 5.2 mm; plain;

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

snap-on type; green

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

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1.2.7.2 Marking strip



Item No.: 2009-110

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

1.2.8 Screwless end stop

1.2.8.1 Mounting accessories





Item No.: 249-117

Screwless end stop; 10 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

Item No.: 249-116

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

1.2.9 Test and measurement

1.2.9.1 Testing accessories



Item No.: 210-136

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

1.2.10 Tool

1.2.10.1 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

Installation Notes

Conductor termination









All conductor types at a glance

Push-in termination of solid and ferruled conductors

Push-in termination of solid and ferruled conductors

Insert fine-stranded conductors via operating tool.



Removing all conductors via operating tool.

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Commoning



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



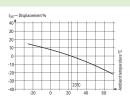
Application Notes on Terminal Blocks for Glass Cartridge Fuses

Diagram: "Individual Arrangement"



Application Notes on Terminal Blocks for Glass Cartridge Fuses

Diagram: "Block Arrangement"



Application Notes on Terminal Blocks for Glass Cartridge Fuses

Nominal current ratings for fuse cartridges are defined differently in international standards. This is why the recommended continuous current-carrying capacity of the fuses is a max. 80% of their nominal current according to DIN 72581/ Part 3 (for a surrounding air temperature of 23°C).

Selecting the correct fuse cartridge is important for product safety within applications, as well as for fuse cartridge service life and reliability. Fuse cartridges will only operate perfectly as protection components (break-off point) if they are properly selected and used as intended (i.e., according to the state of the technology and valid specifications, as well as data sheet characteristics), according to basic safety requirements (i.e., persons, animals and property must be protected against hazards).



Concerning product safety, fuse cartridges must generally be tested under both normal and faulty operating conditions within your application.

Marking



Snapping a marking strip into a marker



Snapping a marking strip into the marker

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

Current addresses can be found at:: www.wago.com

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