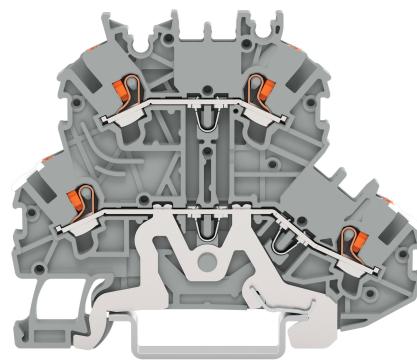
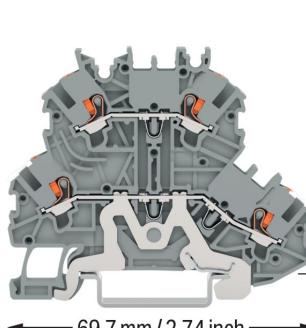


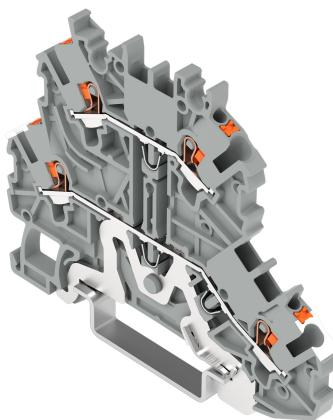
Data Sheet | Item Number: 2200-2228

Double-deck terminal block; Shield/through terminal block; with push-button; 1 mm²; Shielding/L; without marker carrier; conductor entry, white lower deck; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray

<https://www.wago.com/2200-2228>



Color: gray



Similar to illustration

Double-deck terminal block, 2200 Series, gray

This double-deck terminal block (item number 2200-2228) simplifies electrical installations. The double-deck terminal block also functions as a shield terminal block as well as a through terminal block. Ensure that the strip lengths are between 9 mm and 11 mm when connecting conductors to this double-deck terminal block. This product features conductor terminals and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. Solid and fine-stranded conductors with ferrules can be plugged in without the need for tools—all thanks to its pluggable design. This double-deck terminal block is suitable for conductor cross sections ranging from 0.14 mm² to 1.5 mm². It features two levels and four clamping points that you can use to connect two potentials. The gray housing is made of polyamide (PA66) for insulation. These through rail-mount terminal blocks are mounted using DIN-35 rails.. This product is designed for specific Ex applications (please refer to the product datasheet).

Electrical data

IEC/EN 60947-7-1		
Ratings per	III	III
Overvoltage category	III	III
Pollution degree	3	2
Nominal voltage	500 V	-
Rated surge voltage	6 kV	-
Rated current	13.5 A	-
Current at conductor cross-section (max.) mm ²	16 A	-

UL 1059		
Approvals per	B	C
Use group	B	C
Rated voltage	300 V	300 V
Rated current	10 A	10 A

Approvals per	CSA 22.2 No 158			Ex information
Use group	B	C	D	Reference hazardous areas
Rated voltage	300 V	300 V	-	See "Downloads – Documentation – Additional Information: Technical Section; Technical Explanations"
Rated current	10 A	10 A	-	Ratings per
				ATEX: PTB 11 ATEX 1041 U / IECEx: PTB 11.0093U (Ex eb IIC Gb)
				Rated voltage EN (Ex e II)
				320 V
				Rated current (Ex e II)
				13 A
				Rated current (Ex e II) with jumper
				12 A

Power Loss

Power loss, per pole (potential)	0.4338 W
Rated current I_N for specified power loss	13.5 A
Resistance value for specified, current-dependent power loss	0.00238 Ω

Connection data

Clamping units	4
Total number of potentials	2
Number of levels	2
Number of jumper slots	4

Connection 1

Connection technology	Push-in CAGE CLAMP®
Number of connection points	2
Actuation type	Push-button
Connectable conductor materials	Copper
Nominal cross-section	1 mm ²
Solid conductor	0.14 ... 1.5 mm ² / 24 ... 16 AWG
Solid conductor; push-in termination	0.5 ... 1.5 mm ² / 20 ... 16 AWG
Fine-stranded conductor	0.14 ... 1.5 mm ² / 24 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.14 ... 0.75 mm ² / 24 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm ² / 20 ... 18 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	9 ... 11 mm / 0.35 ... 0.43 inches
Wiring direction	Front-entry wiring

Connection 2

Number of connection points	2
-----------------------------	---

Physical data

Width	3.5 mm / 0.138 inches
Height	69.7 mm / 2.744 inches
Depth from upper-edge of DIN-rail	51.7 mm / 2.035 inches

Mechanical data

Potential marking	Shield/L
Mounting type	DIN-35 rail
Marking level	Center/side marking

Material data

Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.162 MJ
Weight	9.7 g

Environmental requirements

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

Commercial data

ETIM 9.0	EC000897
ETIM 8.0	EC000897
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	IN
GTIN	4066966479034
Customs tariff number	85369010000

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates**Declarations of conformity and manufacturer's declarations**

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

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 2200-2228



Documentation

Additional Information

Technical Section

pdf

2246.92 KB



CAD/CAE-Data

CAD data

2D/3D Models
2200-2228



1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



[Item No.: 2000-2291](#)

End plate; 0.7 mm thick; gray

[Item No.: 2000-2292](#)

End plate; 0.7 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



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.: 216-243

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

1.2.3 Installation

1.2.3.1 Cover



Item No.: 709-156

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

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 Jumper

1.2.4.1 Jumper



Item No.: 2000-406/020-000

Delta jumper; insulated; light gray

Item No.: 2000-410/000-006

Jumper; 10-way; insulated; blue

Item No.: 2000-410

Jumper; 10-way; insulated; light gray

Item No.: 2000-410/000-005

Jumper; 10-way; insulated; red



Item No.: 2000-402/000-006

Jumper; 2-way; insulated; blue

Item No.: 2000-402

Jumper; 2-way; insulated; light gray

Item No.: 2000-402/000-005

Jumper; 2-way; insulated; red

Item No.: 2000-402/000-018

Jumper; 2-way; insulated; yellow-green



Item No.: 2000-403/000-006

Jumper; 3-way; insulated; blue

Item No.: 2000-403

Jumper; 3-way; insulated; light gray

Item No.: 2000-403/000-005

Jumper; 3-way; insulated; red

Item No.: 2000-404/000-006

Jumper; 4-way; insulated; blue



Item No.: 2000-404

Jumper; 4-way; insulated; light gray

Item No.: 2000-404/000-005

Jumper; 4-way; insulated; red

Item No.: 2000-405/000-006

Jumper; 5-way; insulated; blue

Item No.: 2000-405

Jumper; 5-way; insulated; light gray



Item No.: 2000-405/000-005

Jumper; 5-way; insulated; red

Item No.: 2000-406/000-006

Jumper; 6-way; insulated; blue

Item No.: 2000-406

Jumper; 6-way; insulated; light gray

Item No.: 2000-406/000-005

Jumper; 6-way; insulated; red



Item No.: 2000-407/000-006

Jumper; 7-way; insulated; blue

Item No.: 2000-407

Jumper; 7-way; insulated; light gray

Item No.: 2000-407/000-005

Jumper; 7-way; insulated; red

Item No.: 2000-408/000-006

Jumper; 8-way; insulated; blue

1.2.4.1 Jumper

[Item No.: 2000-408](#)

Jumper; 8-way; insulated; light gray

[Item No.: 2000-408/000-005](#)

Jumper; 8-way; insulated; red

[Item No.: 2000-409/000-006](#)

Jumper; 9-way; insulated; blue

[Item No.: 2000-409](#)

Jumper; 9-way; insulated; light gray

[Item No.: 2000-409/000-005](#)

Jumper; 9-way; insulated; red

[Item No.: 2000-440](#)

Jumper; from 1 to 10; insulated; light gray

[Item No.: 2000-433/000-006](#)

Jumper; from 1 to 3; insulated; blue

[Item No.: 2000-433](#)

Jumper; from 1 to 3; insulated; light gray

[Item No.: 2000-433/000-005](#)

Jumper; from 1 to 3; insulated; red

[Item No.: 2000-434](#)

Jumper; from 1 to 4; insulated; light gray

[Item No.: 2000-435](#)

Jumper; from 1 to 5; insulated; light gray

[Item No.: 2000-436](#)

Jumper; from 1 to 6; insulated; light gray

[Item No.: 2000-437](#)

Jumper; from 1 to 7; insulated; light gray

[Item No.: 2000-438](#)

Jumper; from 1 to 8; insulated; light gray

[Item No.: 2000-439](#)

Jumper; from 1 to 9; insulated; light gray

[Item No.: 2000-405/011-000](#)

Star point jumper; 3-way; insulated; light gray

[Item No.: 2000-492](#)

Vertical jumper; insulated; light gray

[Item No.: 210-103](#)

Wire commoning chain; insulated; black

[Item No.: 210-123](#)

Wire commoning chain; insulated; blue

1.2.5

1.2.5 Marking

1.2.5.1 Marker

[Item No.: 793-3501](#)

WMB marking card; as card; plain; snap-on type; white

[Item No.: 2009-113/000-006](#)

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue

[Item No.: 2009-113/000-007](#)

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray

[Item No.: 2009-113/000-023](#)

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green

[Item No.: 2009-113/000-017](#)

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green

[Item No.: 2009-113/000-012](#)

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange

[Item No.: 2009-113/000-005](#)

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red

[Item No.: 2009-113/000-024](#)

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet

[Item No.: 2009-113](#)

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white

[Item No.: 2009-113/000-002](#)

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow

1.2.5.2 Marker carrier

[Item No.: 2000-121](#)

Adaptor; gray

1.2.5.3

1.2.5.3 Marking strip

[Item No.: 2009-110](#)

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

1.2.6 Protective warning marker

1.2.6.1 Cover

[Item No.: 2000-115](#)

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

1.2.7 Push-in type wire jumper

1.2.7.1 Jumper

[Item No.: 2009-404](#)

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

[Item No.: 2009-406](#)

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

[Item No.: 2009-402](#)

Push-in type wire jumper; 0.75 mm²; insulated; 60 mm long; gray

1.2.8 Screwless end stop

1.2.8.1 Mounting accessories

[Item No.: 249-117](#)

Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

[Item No.: 249-116](#)

Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.2.9 Test and measurement

1.2.9.1 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.: 2009-182](#)

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

1.2.10 Tool

1.2.10.1 Operating tool

[Item No.: 210-719](#)

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

[Item No.: 210-648](#)

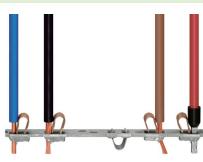
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

[Item No.: 210-647](#)

Operating tool; Blade: 2.5 x 0.4 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



Insert fine-stranded conductors via operating tool.



Removing all conductors via operating tool.

Commoning



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



Commoning with step-down jumpers.

Testing



Testing with a 2 mm Ø test plug (max. 42 V).