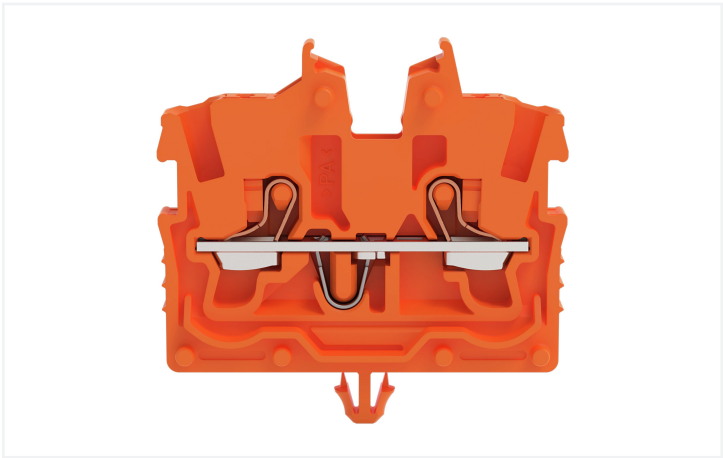


Data Sheet | Item Number: 2250-312

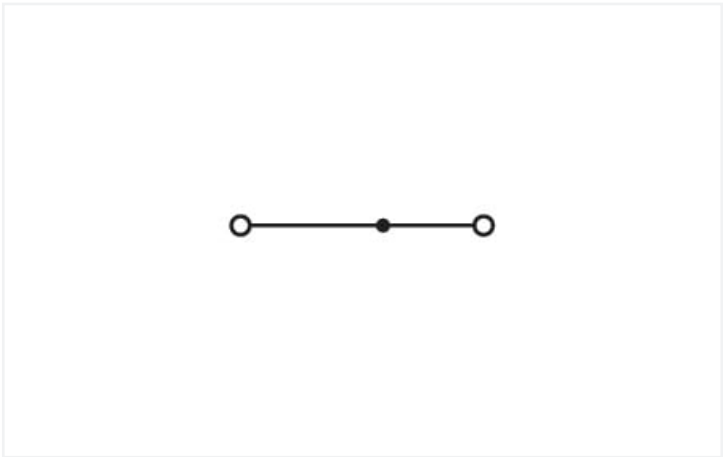
2-conductor miniature through terminal block; with push-button; 1 mm²; with snap-in mounting foot; side and center marking; with test port; Push-in CAGE CLAMP®; 1,00 mm²; orange



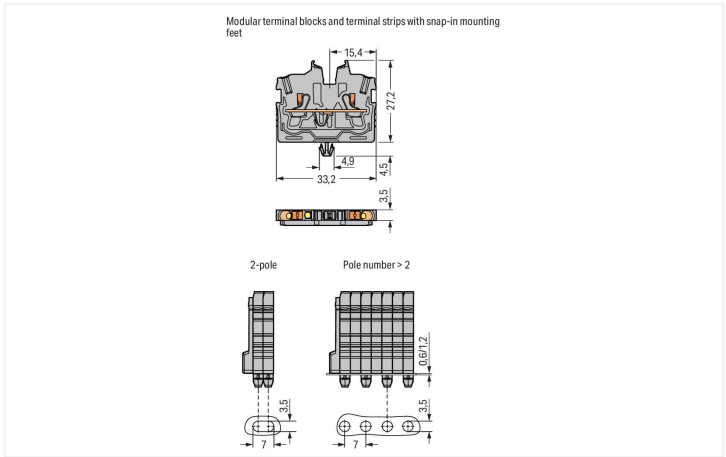
<https://www.wago.com/2250-312>



Color: ■ orange



Similar to illustration



| Electrical data                     |                                                                                                     |                  |       |    |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|------------------|-------|----|
| Ratings per                         |                                                                                                     | IEC/EN 60998-2-2 |       |    |
| Overvoltage category                |                                                                                                     | III              | III   | II |
| Pollution degree                    |                                                                                                     | 3                | 2     | 2  |
| Nominal voltage                     |                                                                                                     | 500 V            | -     | -  |
| Rated surge voltage                 |                                                                                                     | 6 kV             | -     | -  |
| Rated current                       |                                                                                                     | 13.5 A           | -     | -  |
| Approvals per                       |                                                                                                     | CSA 22.2 No 158  |       |    |
| Use group                           |                                                                                                     | B                | C     | D  |
| Rated voltage                       |                                                                                                     | 300 V            | 300 V | -  |
| Rated current                       |                                                                                                     | 10 A             | 10 A  | -  |
| Approvals per                       |                                                                                                     | UL 1059          |       |    |
| Use group                           |                                                                                                     | B                | C     | D  |
| Rated voltage                       |                                                                                                     | 300 V            | 300 V | -  |
| Rated current                       |                                                                                                     | 10 A             | 10 A  | -  |
| Ex information                      |                                                                                                     |                  |       |    |
| Reference hazardous areas           | See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications" |                  |       |    |
| Rated voltage EN (Ex e II)          | 352 V                                                                                               |                  |       |    |
| Rated current (Ex e II)             | 13.5 A                                                                                              |                  |       |    |
| Rated current (Ex e II) with jumper | 12 A                                                                                                |                  |       |    |



| Power Loss                                                   |           |
|--------------------------------------------------------------|-----------|
| Power loss, per pole (potential)                             | 0.4338 W  |
| Rated current I <sub>N</sub> for specified power loss        | 13.5 A    |
| Resistance value for specified, current-dependent power loss | 0.00238 Ω |

| Connection data            |   |                                                            |                                                                                                                                   |
|----------------------------|---|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Connection points          | 2 | Connection 1                                               |                                                                                                                                   |
| Total number of potentials | 1 | Connection technology                                      | Push-in CAGE CLAMP®                                                                                                               |
| Number of levels           | 1 | Actuation type                                             | Push-button                                                                                                                       |
| Number of jumper slots     | 1 | Connectable conductor materials                            | Copper                                                                                                                            |
|                            |   | Nominal cross-section                                      | 1 mm²                                                                                                                             |
|                            |   | Solid conductor                                            | 0.14 ... 1.5 mm² / 24 ... 16 AWG                                                                                                  |
|                            |   | Solid conductor; push-in termination                       | 0.5 ... 1.5 mm² / 20 ... 16 AWG                                                                                                   |
|                            |   | Fine-stranded conductor                                    | 0.14 ... 1.5 mm² / 24 ... 16 AWG                                                                                                  |
|                            |   | Fine-stranded conductor; with insulated ferrule            | 0.14 ... 0.75 mm² / 24 ... 18 AWG                                                                                                 |
|                            |   | Fine-stranded conductor; with ferrule; push-in termination | 0.5 ... 0.75 mm² / 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                                                                                                                |

| Physical data           |                        |
|-------------------------|------------------------|
| Width                   | 3.5 mm / 0.138 inches  |
| Height from the surface | 27.2 mm / 1.071 inches |
| Depth                   | 33.2 mm / 1.307 inches |

| Mechanical data |                     |
|-----------------|---------------------|
| Mounting type   | Snap-in foot        |
| Marking level   | Center/side marking |

| Material data               |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| Note (material data)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | orange                                                                                                                 |
| Material group              | I                                                                                                                      |
| Insulation material         | Polyamide (PA66)                                                                                                       |
| Flammability class per UL94 | V0                                                                                                                     |
| Fire load                   | 0.065 MJ                                                                                                               |
| Weight                      | 2.4 g                                                                                                                  |



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

| Commercial data       |               |
|-----------------------|---------------|
| PU (SPU)              | 100 pcs       |
| Country of origin     | DE            |
| GTIN                  | 4066966309584 |
| Customs tariff number | 85369010000   |

| Environmental Product Compliance |                        |
|----------------------------------|------------------------|
| RoHS Compliance Status           | Compliant,No Exemption |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2250-312

↓

Documentation

Additional Information

Technical Sectionpdf2240.62 KB

↓

CAD/CAE-Data

CAD data

2D/3D Models2250-312

↓

1 Compatible Products

1.1 System counterpart

1.1.1 Through terminal block



**Item No.: 2250-321**  
2-conductor miniature through terminal block; with push-button; 1 mm²; Center terminal block without snap-in mounting foot, without mounting flange; side and center marking; with test port; Push-in CA-GE CLAMP®; 1,00 mm²; gray



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 1.2 Required Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |
| 1.2.1 End plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
| 1.2.1.1 End plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |
| <div><div>Item No.: 2050-391</div><div>End plate; for terminal blocks with snap-in mounting foot; 3.4 mm thick; gray</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |
| 1.3 Optional Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |
| 1.3.1 DIN-rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |
| 1.3.1.1 Mounting accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |
| <div><div>Item No.: 210-154</div><div>Aluminum carrier rail; 1000 mm long; 18 mm wide; 7 mm high; silver-colored</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
| 1.3.2 Ferrule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |
| 1.3.2.1 Ferrule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
| <div><div><div>Item No.: 216-241</div><div>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</div></div></div> <div><div><div>Item No.: 216-242</div><div>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</div></div></div> <div><div><div>Item No.: 216-243</div><div>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red</div></div></div> |  |  |  |
| 1.3.3 Installation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |
| 1.3.3.1 Mounting accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
| <div><div><div>Item No.: 209-137</div><div>Mounting adapter; can be used as end stop; 6.5 mm wide; gray</div></div></div> <div><div><div>Item No.: 209-120</div><div>Mounting foot; can be snapped on terminal blocks with snap-in mounting foot; for mounting on relay-modules; 6.4 mm wide; gray</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| 1.3.4 Jumper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
| 1.3.4.1 Jumper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |
| <div><div><div>Item No.: 2000-406/020-000</div><div>Delta jumper; insulated; light gray</div></div></div> <div><div><div>Item No.: 2000-410/000-006</div><div>Jumper; 10-way; insulated; blue</div></div></div> <div><div><div>Item No.: 2000-410</div><div>Jumper; 10-way; insulated; light gray</div></div></div> <div><div><div>Item No.: 2000-410/000-005</div><div>Jumper; 10-way; insulated; red</div></div></div>                                                                                                                               |  |  |  |
| <div><div><div>Item No.: 2000-402/000-006</div><div>Jumper; 2-way; insulated; blue</div></div></div> <div><div><div>Item No.: 2000-402</div><div>Jumper; 2-way; insulated; light gray</div></div></div> <div><div><div>Item No.: 2000-402/000-005</div><div>Jumper; 2-way; insulated; red</div></div></div> <div><div><div>Item No.: 2000-402/000-018</div><div>Jumper; 2-way; insulated; yellow-green</div></div></div>                                                                                                                              |  |  |  |

## 1.3.4.1 Jumper



**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



**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

## 1.3.5 Marking

## 1.3.5.1 Group marker carrier



**Item No.: 2009-191**  
Group marker carrier; gray

## 1.3.5.2 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

1.3.5.3 Marking strip



**Item No.: 2009-110**  
Marking strips; for Smart Printer; on reel;  
not stretchable; plain; snap-on type; white

1.3.6 Push-in type wire jumper

1.3.6.1 Jumper



**Item No.: 2009-404**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 110 mm long; gray



**Item No.: 2009-406**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 250 mm long; gray



**Item No.: 2009-402**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 60 mm long; gray

1.3.7 Test and measurement

1.3.7.1 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 mm<sup>2</sup>; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

1.3.8 Tool

1.3.8.1 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



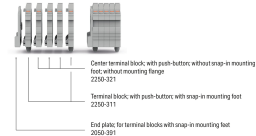
**Item No.: 210-647**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

Installation

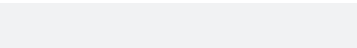
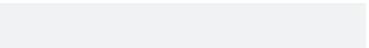
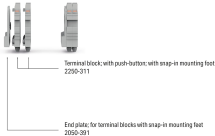
Example of a 5-pole terminal strip; with push-buttons; with snap-in mounting feet

Pole number = 2



Example of a 2-pole terminal strip; with push-buttons; with snap-in mounting feet

2



Conductor termination



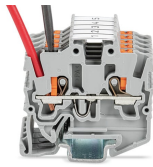
Insert solid conductors via push-in termination.



Insert ferruled conductors via push-in termination.

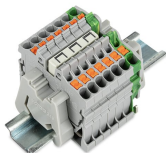


Insert fine-stranded conductors via operating tool.

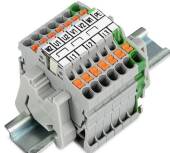


Remove all conductors via operating tool.

Commoning



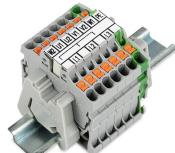
Insert a delta jumper and push down until it hits the backstop (example shows terminal blocks with push-buttons).



Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (delta jumper) (example shows terminal blocks with push-buttons)



Insert a star point jumper and push down until it hits the backstop (example shows terminal blocks with push-buttons).



Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (2000-405/011-000 Delta Jumper) (example shows terminal blocks with push-buttons)

Testing



Testing with a 2 mm Ø 210-136 Test Plug (max. 42 V).

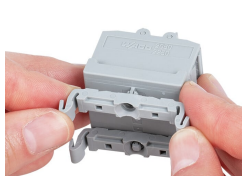
Installation



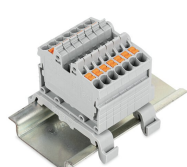
Mounting a terminal strip with snap-in feet into holes.



Mounting a terminal strip with snap-in feet onto aluminum rail.



Snapping a mounting foot (209-120) to a terminal strip with snap-in mounting feet. (Distance between mounting feet: approx. 20 ... 25 mm)



Terminal strip; with snap-in mounting feet; for DIN-35 rail (209-120 Mounting Foot) (example shows terminal blocks with push-buttons)

Marking



Snapping a marking strip into the marker slot.



Snapping a marking strip (2009-110) into a marker slot.