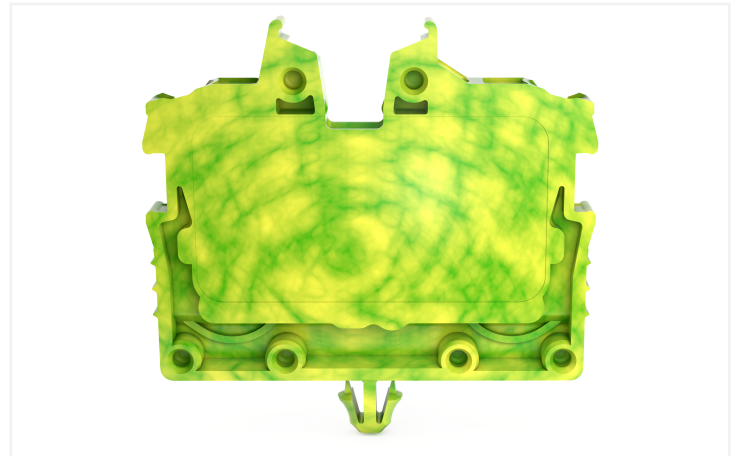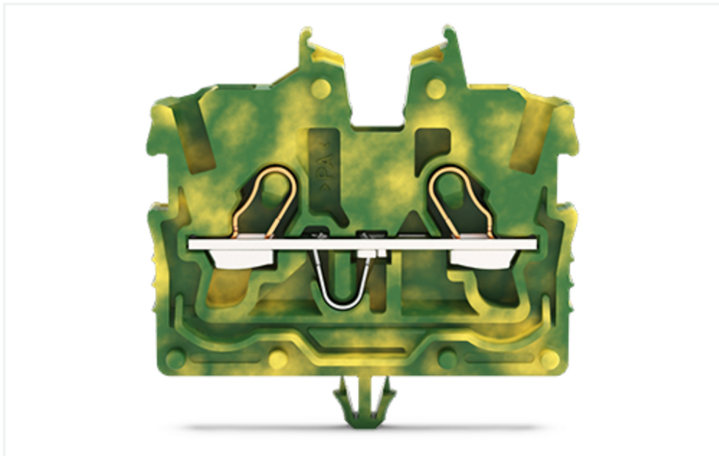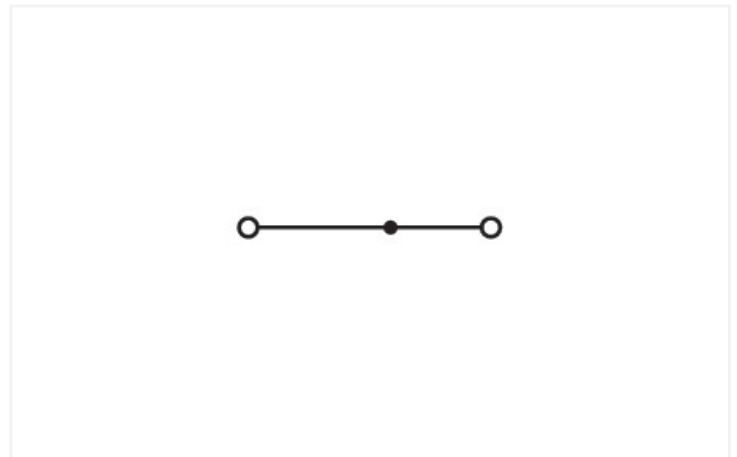# Data Sheet | Item Number: 2050-317

2-conductor miniature through terminal block; with operating slots; 1 mm²; with snap-in mounting foot; side and center marking; with test port; Push-in CAGE CLAMP®; 1,00 mm²; green-yellow
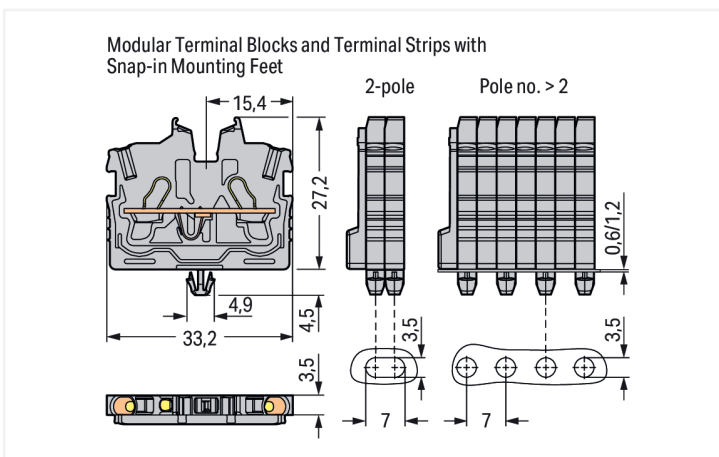
https://www.wago.com/2050-317

Color: ■ green-yellow

Similar to illustration

Version 06.05.2025
Continued on next page

Through terminal block, 2050 Series, green-yellow

Our through terminal block (item number 2050-317) makes connecting wires quick and easy. Whether in industrial or building applications, our rail-mount through terminal blocks are the perfect solution to quickly and securely connect electrical conductors. Depending on the variant, you can use them for either typical through-wiring or potential distribution. This mini rail-mount terminal block has a rated voltage of 500 V and can handle currents up to 13.5 A. Ensure that the strip lengths are between 9 mm and 11 mm when connecting conductors to this through terminal block. Featuring conductor terminals along with Push-in CAGE CLAMP®, this product is highly versatile. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, featuring a winning design: It allows direct insertion of both solid and fine-stranded conductors with ferrules without needing tools. No preparation is required; for example, crimping the conductor's ferrule is not necessary. Depending on the conductor type, this through terminal block is designed for conductor cross sections ranging from 0.14 mm² to 1.5 mm². It comes with one level and two clamping points for connecting a single potential. The green-yellow housing is made of polyamide (PA66) for insulation. This mini rail-mount terminal block is operated with an operating tool. Our TOPJOB® S rail-mount terminal blocks guarantee secure electrical connections in different industrial applications and modern building installations. They simplify wiring, as you can quickly plug in solid, stranded, and fine-stranded conductors with ferrules. The front-entry wiring makes it possible to connect copper conductors. The one jumper slot enables potential distribution to other clamping points. This product is designed for specific Ex applications (please refer to the product datasheet).

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	-	-
Current at conductor cross-section (max.) mm²	17.5 A	-	-

Ex information

Reference hazardous areas	See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications"
Ratings per	ATEX: PTB 19 ATEX 1019 U / IECEx: PTB 19.0050U (Ex eb IIC Gb)
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_N for specified power loss	13.5 A
Resistance value for specified, current-dependent power loss	0.00238 Ω

Connection data

Clamping units	2
Total number of potentials	1
Number of levels	1
Number of jumper slots	1

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
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 … 1 mm² / 24 … 18 AWG
Fine-stranded conductor; with uninsulated ferrule	0.14 … 1 mm² / 24 … 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 … 1 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

WAGO

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)	Information on material specifications can be found here
Color	green-yellow
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0 MJ
Weight	2.3 g

Environmental requirements

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

Commercial data

PU (SPU)	100 pcs
Packaging type	Box
Country of origin	IN
GTIN	4055143964777
Customs tariff number	85369010000

Product classification

UNSPSC	39121410
ETIM 9.0	EC001284
ETIM 8.0	EC001284
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60998	NTR NL 7840
CSA CSA	C22.2 No. 158	80034182
cURus Underwriters Laboratories Inc.	UL 1059	E45172
KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-113957

Approvals for hazardous areas

Approval	Standard	Certificate Name
ATEX Physikalisch Technische Bundesanstalt	EN IEC 60079-0	PTB 19 ATEX 1019 U (II 2G Ex eb IIC Gb or I M 2 Ex eb I Mb)
CCC CNEX	GB/T 3836.3	2020312313000289 (Ex eb IIC Gb, Ex eb I Mb)
IECEx Physikalisch Technische Bundesanstalt	IEC 60079	IECEx PTB 19.0050U (Ex eb IIC Gb or EX eb I Mb)
INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079	TÜV 22.0014 U

Declarations of conformity and manufacturer's declarations

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

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2050-317	↓

CAD/CAE-Data

CAD data

2D/3D Models 2050-317	↓

CAE data

EPLAN Data Portal 2050-317	↓
WSCAD Universe 2050-317	↓
ZUKEN Portal 2050-317	↓

1 Compatible Products

1.1 System counterpart

1.1.1 Through terminal block

Item No.: 2050-327
2-conductor miniature through terminal block; with operating slots; 1 mm²; Center terminal block without snap-in mounting foot, without mounting flange; side and center marking; with test port; Push-in CAGE CLAMP®; 1,00 mm²; green-yellow

1.2 Required Accessories

1.2.1 End plate

1.2.1.1 End plate

Item No.: 2050-391
End plate; for terminal blocks with snap-in mounting foot; 3.4 mm thick; gray

1.3 Optional Accessories

1.3.1 DIN-rail

1.3.1.1 Mounting accessories

Item No.: 210-154
Aluminum carrier rail; 1000 mm long; 18 mm wide; 7 mm high; silver-colored

1.3.2 Ferrule

1.3.2.1 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.: 216-243
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

1.3.3 Installation

1.3.3.1 Mounting accessories

Item No.: 209-137
Mounting adapter; can be used as end stop; 6.5 mm wide; gray

Item No.: 209-120
Mounting foot; can be snapped on terminal blocks with snap-in mounting foot; for mounting on relay-modules; 6.4 mm wide; gray

1.3.4 Jumper

1.3.4.1 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
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 Protective warning marker

1.3.6.1 Cover

Item No.: 2000-115
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.3.7 Push-in type wire jumper

1.3.7.1 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

1.3.8 Test and measurement

1.3.8.1 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 mm²; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

1.3.9 Tool

1.3.9.1 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 operating slots; with snap-in mounting feet
Pole number > 2

Center terminal block; with operating slot; without snap-in mounting foot; without mounting flange
2050-321

Terminal block; with operating slot; with snap-in mounting foot
2050-311

End plate; for terminal blocks with snap-in mounting feet
2050-391
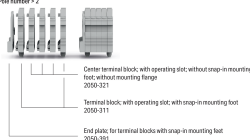
Example of a 2-pole terminal strip; with operating slots; with snap-in mounting feet

Terminal block; with operating slot; with snap-in mounting foot
2050-311

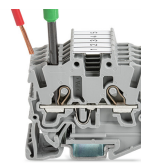End plate; for terminal blocks with snap-in mounting feet
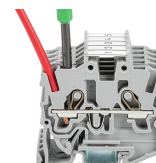2050-391
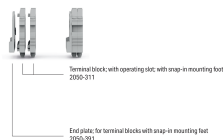
Conductor termination

Insert solid conductors via push-in termination.

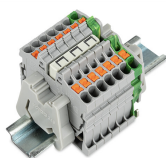Insert ferruled conductors via push-in termination.

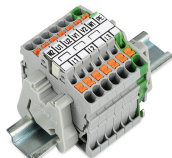Insert fine-stranded conductors via operating tool.

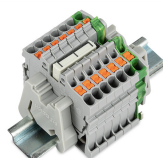Remove all conductors via operating tool.

Commoning

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

Marking strip (Item No. 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).
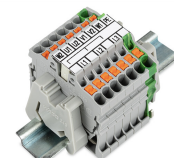
Marking strip (Item No. 2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (2000-405/011-000 Delta Jumper) (example shows terminal blocks with push-buttons)

Testing

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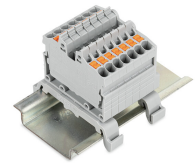
Installation

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 (Item No. 2009-110) into a marker slot.

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

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