

**Data sheet | Item number: 2050-304**

2-conductor miniature through terminal block; with operating slots; 1 mm<sup>2</sup>;  
End terminal block with mounting flange; side and center marking; with test  
port; Push-in CAGE CLAMP®; 1,00 mm<sup>2</sup>; blue



[www.wago.com/2050-304](http://www.wago.com/2050-304)



**Color:**

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

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## Data

### Electrical data

#### Ratings per IEC/EN

Ratings per	IEC/EN 60998-2-2
Nominal voltage (III/3)	500 V
Rated impulse voltage (III/3)	6 kV
Rated current	13.5 A
Current at conductor cross-section (max.) mm <sup>2</sup>	17.5 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

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## Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group C)	300 V
Rated current UL (Use Group C)	10 A

## Ratings per CSA

Approvals per	CSA 22.2 No 158
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group C)	300 V
Rated current CSA (Use Group C)	10 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)	0.434 W
Rated current $I_N$ for specified power loss	13.5 A
Resistance value for specified, current-dependent power loss	0.002 $\Omega$

## Connection data

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

## Connection 1

Connection technology	Push-in CAGE CLAMP®
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Subject to changes. Please also observe the further product documentation!



Actuation type	Operating tool
Connectable conductor materials	Copper
Nominal cross-section	1 mm <sup>2</sup>
Solid conductor	0.14 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG
Solid conductor; push-in termination	0.5 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
Fine-stranded conductor	0.14 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.14 ... 0.75 mm <sup>2</sup> / 24 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm <sup>2</sup> / 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	Mounting flange
Marking level	Center/side marking

### Material Data

Note (material data)	Information on material specifications can be found here
Color	blue
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.051 MJ
Weight	2.5 g

### Environmental requirements

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

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## Commercial data

ETIM 8.0	EC001284
ETIM 7.0	EC001284
PU (SPU)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4055143964968
Customs tariff number	85369010000

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 60998	NTR NL 7840
	<b>CSA</b> CSA	C22.2 No. 158	80034182
	<b>cURus</b> Underwriters Laboratories Inc.	UL 1059	E45172
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 60998	71- 113957

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>ATEX-Attestation of Conformity</b> WAGO GmbH & Co. KG	-	-
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-
	<b>UK-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

### Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
	<b>AEx</b> Underwriters Laboratories Inc.	UL 60079	E185892 (AEx eb IIC resp. Ex eb IIC)
	<b>ATEX</b>	EN IEC 60079-0	PTB 19 ATEX 1019

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Physikalisch Technische Bundesanstalt		U (II 2G Ex eb IIC Gb or I M 2 Ex eb I Mb)
<b>CCC</b> CNEX	GB/T 3836.3	2020312313000289 (Ex eb IIC Gb, Ex eb I Mb)
<b>IECEX</b> Physikalisch Technische Bundesanstalt	IEC 60079	IECEX PTB 19.0050U (Ex eb IIC Gb or EX eb I Mb)
<b>INMETRO</b> TÜV Rheinland do Brasil Ltda.	IEC 60079	TÜV 22.0014 U

## Counterpart

### Item no.2050-324

2-conductor miniature through terminal block; with operating slots; 1 mm<sup>2</sup>; Center terminal block without snap-in mounting foot, without mounting flange; side and center marking; with test port; Push-in CAGE CLAMP®; 1,00 mm<sup>2</sup>; blue

[www.wago.com/2050-324](http://www.wago.com/2050-324)

## Required accessories

### End plate

End plate

#### Item no.: 2050-381

End plate; with fixing flange; 1.3 mm thick; gray

[www.wago.com/2050-381](http://www.wago.com/2050-381)

## Optional accessories

### Tool

Operating tool

#### Item no.: 210-648

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

[www.wago.com/210-648](http://www.wago.com/210-648)

#### Item no.: 210-647

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

[www.wago.com/210-647](http://www.wago.com/210-647)

#### Item no.: 210-719

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

[www.wago.com/210-719](http://www.wago.com/210-719)

## Mounting

Mounting accessories

#### Item no.: 209-123

Mounting foot with screw; can be screwed on terminal blocks with fixing flange; 6.4 mm wide; gray

[www.wago.com/209-123](http://www.wago.com/209-123)

#### Item no.: 209-137

Mounting adapter; can be used as end stop; 6.5 mm wide; gray

[www.wago.com/209-137](http://www.wago.com/209-137)

## Push-in type wire jumper

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## Jumper

<b>Item no.: 2009-404</b> Push-in type wire jumper; 0.75 mm <sup>2</sup> ; insulated; 110 mm long; gray	<a href="http://www.wago.com/2009-404">www.wago.com/2009-404</a>
<b>Item no.: 2009-402</b> Push-in type wire jumper; 0.75 mm <sup>2</sup> ; insulated; 60 mm long; gray	<a href="http://www.wago.com/2009-402">www.wago.com/2009-402</a>
<b>Item no.: 2009-406</b> Push-in type wire jumper; 0.75 mm <sup>2</sup> ; insulated; 250 mm long; gray	<a href="http://www.wago.com/2009-406">www.wago.com/2009-406</a>

## Protective warning marker

## Cover

<b>Item no.: 2000-115</b> Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow	<a href="http://www.wago.com/2000-115">www.wago.com/2000-115</a>
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## Marking accessories

## Marking strip

<b>Item no.: 2009-110</b> Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/2009-110">www.wago.com/2009-110</a>
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## Marker

<b>Item no.: 2009-113</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white	<a href="http://www.wago.com/2009-113">www.wago.com/2009-113</a>
<b>Item no.: 2009-113/000-002</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow	<a href="http://www.wago.com/2009-113/000-002">www.wago.com/2009-113/000-002</a>
<b>Item no.: 2009-113/000-012</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange	<a href="http://www.wago.com/2009-113/000-012">www.wago.com/2009-113/000-012</a>
<b>Item no.: 2009-113/000-007</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray	<a href="http://www.wago.com/2009-113/000-007">www.wago.com/2009-113/000-007</a>
<b>Item no.: 2009-113/000-005</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red	<a href="http://www.wago.com/2009-113/000-005">www.wago.com/2009-113/000-005</a>
<b>Item no.: 2009-113/000-017</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green	<a href="http://www.wago.com/2009-113/000-017">www.wago.com/2009-113/000-017</a>
<b>Item no.: 2009-113/000-006</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue	<a href="http://www.wago.com/2009-113/000-006">www.wago.com/2009-113/000-006</a>
<b>Item no.: 2009-113/000-024</b> WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet	<a href="http://www.wago.com/2009-113/000-024">www.wago.com/2009-113/000-024</a>

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**Item no.: 2009-113/000-023**

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

[www.wago.com/2009-113/000-023](http://www.wago.com/2009-113/000-023)**Item no.: 793-3501**

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

[www.wago.com/793-3501](http://www.wago.com/793-3501)

## Group marker carrier

**Item no.: 2009-191**

Group marker carrier; gray

[www.wago.com/2009-191](http://www.wago.com/2009-191)

## Ferrule

## Ferrule

**Item no.: 216-241**Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white[www.wago.com/216-241](http://www.wago.com/216-241)**Item no.: 216-242**Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray[www.wago.com/216-242](http://www.wago.com/216-242)**Item no.: 216-243**Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red[www.wago.com/216-243](http://www.wago.com/216-243)

## Jumpers

## Jumper

**Item no.: 2000-408**

Jumper; 8-way; insulated; light gray

[www.wago.com/2000-408](http://www.wago.com/2000-408)**Item no.: 2000-407**

Jumper; 7-way; insulated; light gray

[www.wago.com/2000-407](http://www.wago.com/2000-407)**Item no.: 2000-409**

Jumper; 9-way; insulated; light gray

[www.wago.com/2000-409](http://www.wago.com/2000-409)**Item no.: 2000-408/000-006**

Jumper; 8-way; insulated; blue

[www.wago.com/2000-408/000-006](http://www.wago.com/2000-408/000-006)**Item no.: 2000-408/000-005**

Jumper; 8-way; insulated; red

[www.wago.com/2000-408/000-005](http://www.wago.com/2000-408/000-005)**Item no.: 2000-409/000-005**

Jumper; 9-way; insulated; red

[www.wago.com/2000-409/000-005](http://www.wago.com/2000-409/000-005)**Item no.: 2000-407/000-006**

Jumper; 7-way; insulated; blue

[www.wago.com/2000-407/000-006](http://www.wago.com/2000-407/000-006)**Item no.: 2000-410**

Jumper; 10-way; insulated; light gray

[www.wago.com/2000-410](http://www.wago.com/2000-410)

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**Item no.: 2000-410/000-006**  
Jumper; 10-way; insulated; blue

[www.wago.com/2000-410/000-006](http://www.wago.com/2000-410/000-006)

**Item no.: 2000-433/000-005**  
Jumper; from 1 to 3; insulated; red

[www.wago.com/2000-433/000-005](http://www.wago.com/2000-433/000-005)

**Item no.: 2000-407/000-005**  
Jumper; 7-way; insulated; red

[www.wago.com/2000-407/000-005](http://www.wago.com/2000-407/000-005)

**Item no.: 2000-433/000-006**  
Jumper; from 1 to 3; insulated; blue

[www.wago.com/2000-433/000-006](http://www.wago.com/2000-433/000-006)

**Item no.: 2000-410/000-005**  
Jumper; 10-way; insulated; red

[www.wago.com/2000-410/000-005](http://www.wago.com/2000-410/000-005)

**Item no.: 2000-435**  
Jumper; from 1 to 5; insulated; light gray

[www.wago.com/2000-435](http://www.wago.com/2000-435)

**Item no.: 2000-409/000-006**  
Jumper; 9-way; insulated; blue

[www.wago.com/2000-409/000-006](http://www.wago.com/2000-409/000-006)

**Item no.: 2000-436**  
Jumper; from 1 to 6; insulated; light gray

[www.wago.com/2000-436](http://www.wago.com/2000-436)

**Item no.: 2000-433**  
Jumper; from 1 to 3; insulated; light gray

[www.wago.com/2000-433](http://www.wago.com/2000-433)

**Item no.: 2000-434**  
Jumper; from 1 to 4; insulated; light gray

[www.wago.com/2000-434](http://www.wago.com/2000-434)

**Item no.: 2000-402**  
Jumper; 2-way; insulated; light gray

[www.wago.com/2000-402](http://www.wago.com/2000-402)

**Item no.: 2000-402/000-006**  
Jumper; 2-way; insulated; blue

[www.wago.com/2000-402/000-006](http://www.wago.com/2000-402/000-006)

**Item no.: 2000-403**  
Jumper; 3-way; insulated; light gray

[www.wago.com/2000-403](http://www.wago.com/2000-403)

**Item no.: 2000-402/000-005**  
Jumper; 2-way; insulated; red

[www.wago.com/2000-402/000-005](http://www.wago.com/2000-402/000-005)

**Item no.: 2000-402/000-018**  
Jumper; 2-way; insulated; yellow-green

[www.wago.com/2000-402/000-018](http://www.wago.com/2000-402/000-018)

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<b>Item no.: 2000-404</b> Jumper; 4-way; insulated; light gray	<a href="http://www.wago.com/2000-404">www.wago.com/2000-404</a>
<b>Item no.: 2000-403/000-005</b> Jumper; 3-way; insulated; red	<a href="http://www.wago.com/2000-403/000-005">www.wago.com/2000-403/000-005</a>
<b>Item no.: 2000-404/000-006</b> Jumper; 4-way; insulated; blue	<a href="http://www.wago.com/2000-404/000-006">www.wago.com/2000-404/000-006</a>
<b>Item no.: 2000-403/000-006</b> Jumper; 3-way; insulated; blue	<a href="http://www.wago.com/2000-403/000-006">www.wago.com/2000-403/000-006</a>
<b>Item no.: 2000-404/000-005</b> Jumper; 4-way; insulated; red	<a href="http://www.wago.com/2000-404/000-005">www.wago.com/2000-404/000-005</a>
<b>Item no.: 2000-405</b> Jumper; 5-way; insulated; light gray	<a href="http://www.wago.com/2000-405">www.wago.com/2000-405</a>
<b>Item no.: 2000-405/011-000</b> Star point jumper; 3-way; insulated; light gray	<a href="http://www.wago.com/2000-405/011-000">www.wago.com/2000-405/011-000</a>
<b>Item no.: 2000-405/000-006</b> Jumper; 5-way; insulated; blue	<a href="http://www.wago.com/2000-405/000-006">www.wago.com/2000-405/000-006</a>
<b>Item no.: 2000-406/000-006</b> Jumper; 6-way; insulated; blue	<a href="http://www.wago.com/2000-406/000-006">www.wago.com/2000-406/000-006</a>
<b>Item no.: 2000-405/000-005</b> Jumper; 5-way; insulated; red	<a href="http://www.wago.com/2000-405/000-005">www.wago.com/2000-405/000-005</a>
<b>Item no.: 2000-406</b> Jumper; 6-way; insulated; light gray	<a href="http://www.wago.com/2000-406">www.wago.com/2000-406</a>
<b>Item no.: 2000-406/000-005</b> Jumper; 6-way; insulated; red	<a href="http://www.wago.com/2000-406/000-005">www.wago.com/2000-406/000-005</a>
<b>Item no.: 2000-406/020-000</b> Delta jumper; insulated; light gray	<a href="http://www.wago.com/2000-406/020-000">www.wago.com/2000-406/020-000</a>
<b>Item no.: 2000-437</b> Jumper; from 1 to 7; insulated; light gray	<a href="http://www.wago.com/2000-437">www.wago.com/2000-437</a>
<b>Item no.: 2000-438</b> Jumper; from 1 to 8; insulated; light gray	<a href="http://www.wago.com/2000-438">www.wago.com/2000-438</a>

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

**Item no.: 2000-439**

Jumper; from 1 to 9; insulated; light gray

[www.wago.com/2000-439](http://www.wago.com/2000-439)**Item no.: 2000-440**

Jumper; from 1 to 10; insulated; light gray

[www.wago.com/2000-440](http://www.wago.com/2000-440)**Testing and measuring**

## Testing accessories

**Item no.: 2009-174**

Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray

[www.wago.com/2009-174](http://www.wago.com/2009-174)**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[www.wago.com/2009-182](http://www.wago.com/2009-182)**Item no.: 210-136**

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

[www.wago.com/210-136](http://www.wago.com/210-136)**Downloads****Documentation**

## Additional Information

pdf  
2.3 MB

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**CAD/CAE-Data**

## CAD data

2D/3D Models 2050-304

URL

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## CAE data

ZUKEN Portal 2050-304

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**Environmental Product Compliance**

## Compliance Search

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2-conductor miniature through terminal block; with operating slots; 1 mm<sup>2</sup>; End terminal block with mounting flange; side and center marking; with test port; Push-in CAGE CLAMP®; 1,00 mm<sup>2</sup>; blue

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## Installation Notes

### Installation



### 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

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



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

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



Mounting and securing a terminal strip directly to the plate via screw-type flanges (example shows terminal blocks with push-buttons).



Terminal strip; with mounting flanges; screw mounting (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.

### Product family

#### TOPJOB® S

TOPJOB® S: In various industrial applications and modern building installations, WAGO's wide and versatile range of rail-mount terminal blocks provides more than just reliable electrical connections.

[Show all products from the family](#)

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