Data Sheet | Item Number: 2050-307

2-conductor miniature through terminal block; with operating slots; 1 mm²; End terminal block with mounting flange; side and center marking; with test port; Push-in CAGE CLAMP®; 1,00 mm²; green-yellow
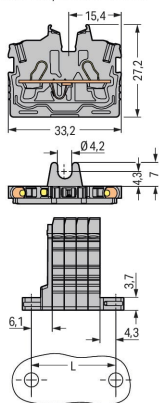
https://www.wago.com/2050-307

Color: ■ green-yellow

Similar to illustration

Electrical data

Ex information

Reference hazardous areas	See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications"

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

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®
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 … 0.75 mm² / 24 … 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 … 0.75 mm² / 20 … 18 AWG

Connection 1

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	green-yellow
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0 MJ
Weight	2.5 g

Environmental requirements

Processing temperature	-35 … +85 ℃
Continuous operating temperature	-60 … +105 ℃

Commercial data

ETIM 8.0	EC001284
ETIM 7.0	EC001284
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143965125
Customs tariff number	85369010000

Approvals / Certificates

General approvals

CCA   CSA   cRUus   KEMA KEUR

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

General approvals

KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-113957

WAGO

Declarations of conformity and manufacturer's declarations

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

Approvals for hazardous areas

AEx ⟨Ex⟩ IECEx

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 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

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2050-307	↓

Documentation

Additional Information

Technical Section	pdf 2142.18 KB	↓

CAD/CAE-Data

CAD data

2D/3D Models 2050-307	↓

CAE data

EPLAN Data Portal 2050-307	↓
WSCAD Universe 2050-307	↓
ZUKEN Portal 2050-307	↓

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.: 2050-381
End plate; with fixing flange; 1.3 mm thick; gray

1.3 Optional Accessories

1.3.1 Ferrule

1.3.1.1 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

1.3.2 Installation

1.3.2.1 Mounting accessories

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

Item No.: 209-123
Mounting foot with screw; can be screwed on terminal blocks with fixing flange; 6.4 mm wide; gray

1.3.3 Jumper

WAGO

1.3.3.1 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

1.3.4 Marking

1.3.4.1 Group marker carrier

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

1.3.4.2 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

1.3.4.3 Marking strip

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

1.3.5 Protective warning marker

1.3.5.1 Cover

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

1.3.6 Push-in type wire jumper

1.3.6.1 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

1.3.7 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 mm²; 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
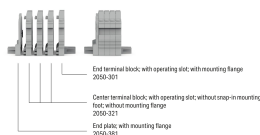
Item No.: 210-647
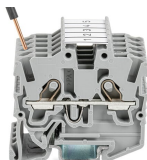Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

Installation

Example of a 4-pole terminal strip; with operating slots; with mounting flanges

End terminal block; with operating slot; with mounting flange
2050-301

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

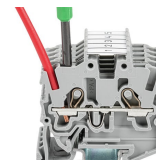End plate; with mounting flange
2050-381

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.
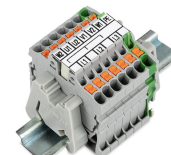
Commoning

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)
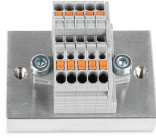
Testing

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

Installation

Mounting 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.

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

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