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; blue



# https://www.wago.com/2050-324





Similar to illustration

		ata
Ευ.	 	 ala

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)

Ratings per UL 1059	
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

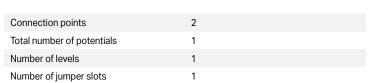
Ratings per CSA	
Approvals per	CSA 22.2 No 158
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group C)	300 V
Rated current CSA (Use Group C)	10 A

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)	0.4338 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

https://www.wago.com/2050-324





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
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	none
Marking level	Center/side marking

Material data	
Note (material data)	Information on material angelfications can be found here
	<u>Information on material specifications can be found here</u>
Color	blue
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.046 MJ
Weight	23 a

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

Commercial data	
ETIM 8.0	EC001284
ETIM 7.0	EC001284
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143964982
Customs tariff number	85369010000

# Approvals / Certificates

https://www.wago.com/2050-324



# 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

# Declarations of conformity and manufacturer's declarations

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

# 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

# Downloads

# **Environmental Product Compliance**

# Compliance Search

**Environmental Product** Compliance 2050-324



# Documentation

**Additional Information** 

pdf 2142.18 KB **Technical Section** 

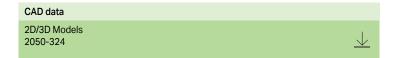
# CAD/CAE-Data

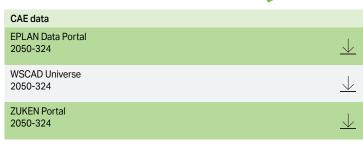
https://www.wago.com/2050-324

Item No.: 2050-381

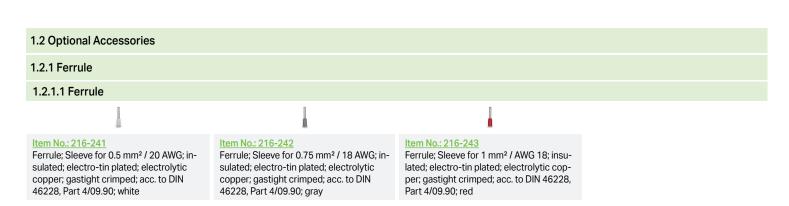
End plate; with fixing flange; 1.3 mm thick;







# 1 Compatible Products 1.1 Required Accessories 1.1.1 End plate 1.1.1.1 End plate





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# 1.2.2.1 Jumper









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

Item No.: 2000-406/000-005 Jumper; 6-way; insulated; red

Jumper; 6-way; insulated; light gray

Item No.: 2000-407/000-006

Jumper; 7-way; insulated; blue

Item No.: 2000-407/000-005

Item No.: 2000-408/000-006



Item No.: 2000-407

Jumper; 7-way; insulated; red

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

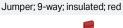
Item No.: 2000-409/000-006 Jumper; 9-way; insulated; blue

Item No.: 2000-409

Jumper; 9-way; insulated; light gray







Item No.: 2000-440

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.: 2000-409/000-005

Item No.: 2000-434

Jumper; from 1 to 4; insulated; light gray

Item No.: 2000-435

Item No.: 2000-436

Item No.: 2000-437

Jumper; from 1 to 5; insulated; light gray

Jumper; from 1 to 6; insulated; light gray



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

## 1.2.3 Marking

# 1.2.3.1 Group marker carrier



Item No.: 2009-191

Group marker carrier; gray

# 1.2.3.2 Marker













Item No.: 793-3501

WMB marking card; as card; plain; snapon type; white



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



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

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

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

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# 1.2.3.3 Marking strip



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

## 1.2.4 Protective warning marker

## 1.2.4.1 Cover



#### Item No.: 2000-115

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

# 1.2.5 Push-in type wire jumper

## 1.2.5.1 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

# 1.2.6 Test and measurement

# 1.2.6.1 Testing accessories

Item No.: 2009-174

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

Item No.: 210-136

Test plug;  $2 \text{ mm } \emptyset$ ; 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

## 1.2.7 Tool

# 1.2.7.1 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

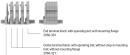
# **Installation Notes**

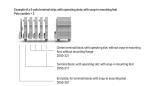
https://www.wago.com/2050-324



## 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



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  $\emptyset$  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)

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# 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.

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