



Color: ■ brown



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	-	-		
Current at conductor cross-section (max.) mm ²	17.5 A	-	-		

Approvals per			UL 1059		
Use group	B	C	D		
Rated voltage	300 V	300 V	-		
Rated current	10 A	10 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	-		

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

Connection points	2	Connection 1	
Total number of potentials	1	Connection technology	Push-in CAGE CLAMP®
Number of levels	1	Actuation type	Operating tool
Number of jumper slots	1	Connectable conductor materials	Copper
		Nominal cross-section	1 mm ²
		Solid conductor	0.14 ... 1.5 mm ² / 24 ... 16 AWG
		Solid conductor; push-in termination	0.5 ... 1.5 mm ² / 20 ... 16 AWG
		Fine-stranded conductor	0.14 ... 1.5 mm ² / 24 ... 16 AWG
		Fine-stranded conductor; with insulated ferrule	0.14 ... 0.75 mm ² / 24 ... 18 AWG
		Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm ² / 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 specifications can be found here
Color	brown
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.046 MJ
Weight	2.3 g

Environmental requirements

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

Commercial data

PU (SPU)	100 pcs
Country of origin	IN
GTIN	4066966312591
Customs tariff number	85369010000

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance	
2050-321/000-014	

Documentation

Additional Information

Technical Section	pdf 2240.62 KB	
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CAD/CAE-Data

CAD data

2D/3D Models	
2050-321/000-014	

1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



[Item No.: 2050-381](#)

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

1.2 Optional Accessories

1.2.1 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

1.2.2 Jumper

1.2.2.1 Jumper



[Item No.: 2000-406/020-000](#)
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.: 2000-443/000-006](#)
Jumper; from 1 to 3; insulated; blue

[Item No.: 2000-443](#)
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.: 2000-433](#)
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

1.2.3 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; 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

1.2.3.3 Marking strip



[Item No.: 2009-110](#)

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 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

1.2.7 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



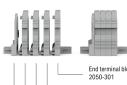
Item No.: 210-647

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

Installation Notes

Installation

Example of a 4-pole terminal strip; with operating slot; with mounting flange

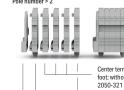


End terminal block; with operating slot; with mounting flange
2050-301

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

End plate; with mounting flange
2050-301

Example of a 5-pole terminal strip; with operating slot; with snap-in mounting flange



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

Terminal block with operating slot; with snap-in mounting bolt
2050-301

End plate; for terminal blocks with snap-in mounting flange
2050-301

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).

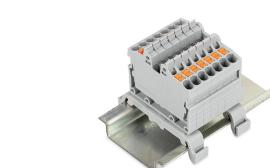
Terminal strip; with mounting flanges; screw mounting (example shows terminal blocks with push-buttons)

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.